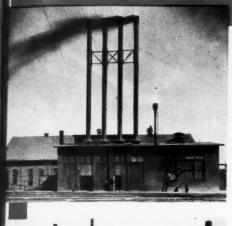
# RAILWAY AGE

JULY 16, 1949







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Even a minor repair is expensive today, and any major replacement is a serious drain on already inadequate revenue. The only sure protection against this waste is the use of a *durable* material, that will give the longest possible trouble-free life.

Byers Wrought Iron hot rolled products have proved invaluable aids in combating corrosion, and minimizing repairs and maintenance. A few of the many installations where the material is successfully serving are:

UNLINED METAL STACKS. Severe corrosion can always be expected in this application, and changes in fuels, addition of economizers or draft inducers, or other factors may aggravate the condition at any time. Users who have made comparative tests report from two to four times the service-life from wrought iron.

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Wrought Iron has proven itself in dozens of individual installations on major roads.

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# RAILWAY AGE

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## WEEK AT A GLANCE

THE "SHASTA DAYLIGHTS": The names of the many new, or newly equipped, luxury passenger trains put into service by American railroads since the end of World War II read like a thumbnail summary of American history and geography. But none of these many trains has been more appropriately—or more graphically—named than the newest of them all—the Southern Pacific's San Francisco-Portland "Shasta Daylights," which bring new speed and new comfort to the S. P.'s famous "Shasta Route." A detailed description, amply illustrated, of the two Pullman-built 15-car trains begins on page 50, preceded on page 49 by pictures of a complete train en route through some of the magnificent scenery which the passengers will enjoy.

RELIEF IN SIGHT? In something of an economic about-face, President Truman has recommended repeal of the war-time excise taxes on movement of freight by common carrier—a proposal which, if adopted, may bring the railroads some measure of relief, as a partial offset to necessary rate increases. For details, see the News columns.

"CLARIFYING" AMENDMENTS: The "clarifying" amendments proposed by I. C. Commissioner Splawn to the so-called "radio-rules" bill (S.238—H.R.378) had the effect of making the bill a little less objectionable from the railroad standpoint. Consequently, the brothers don't like 'em. And they didn't hesitate to express their displeasure in their pet publication, "Labor." Fortunately, as our News section indicates, the carefully considered testimony of Commissioner Splawn seems, so far at least, to have carried rather more weight with the House subcommittee which is considering the bill than have "Labor's" noisy headlines.

IT LOOKS LIKE A LONG SUMMER: The Presidential factfinding board which is hearing the request of the Brotherhood of Locomotive Firemen & Enginemen for extra firemen on Diesel-electric locomotives, in hearings now in progress at New York City, has asked for an extension of time, to September 19, in which to file its report. It expects to spend until August 19 in taking evidence, a fact brought out in our News story on the hearings during the week just ended. Meantime, the witnesses for the brothers drone endlessly on with "arguments" which, so far, at least, seem to have little bearing on the real point at issue.

SUBSIDIZED RAILROAD SERVICE: Unlike their highway, waterway and airway competitors, the railroads receive no subsidies from government or the public. But the users of many profitable railroad services are, nonetheless, required, by public policies, to subsidize, through unnecessarily high rates, the many unprofitable services—such as unremunerative branch lines and suburban commutation traffic—which the railroads, as the only true common carriers, are obliged to provide. Our leading editorial explores this idea in more

detail, pointing out that the transportation situation as it exists today confronts the makers of national transportation policy with three alternatives. One of them must be adopted; otherwise, the policy of having no policy will eventually bring about the worst possible alternative—government ownership and operation, not only of railroads, but of all other types of transportation as well.

TO AVOID YARD DELAYS: By modernizing its big yard at Armourdale, Kan., converting part of it to a modern hump-retarder classification yard, and installing an up-to-date communications network, the Chicago, Rock Island & Pacific is moving cars through the yard in about half the time formerly required, and realizing substantial operating economies into the bargain. The modernization program is described, and the results achieved are outlined, in an illustrated feature article which starts on page 42.

THE FUNDAMENTAL ISSUE: On pages 56 and 57 we reprint two "letters to the editor" of the New York Times, which appeared recently in that newspaper. One is by a spokesman for the American Trucking Associations; the other, an answer to the first, is by the editor of Railway Age. The fundamental issue, this second letter points out, is not how the real costs of transportation are presently assessed as between the users of transportation and the taxpayers; but whether transportation — including inter-city commercial trucks — is to be all self-supporting or all socialized.

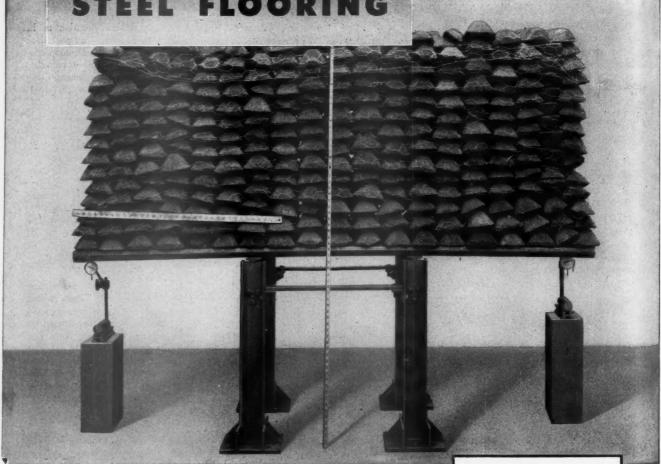
STILL NIBBLING AWAY: Air line passenger-miles in 1948 were less than in 1947—but not down as much as first-class, i. e., parlor and sleeping car, traffic on railroads. In other words, the air lines' proportion of total first-class passenger business in 1948 was larger than in earlier years, which means that the subsidy-aided air carriers are still nibbling away at the traffic of self-supporting railroads. Those facts were brought out in the latest issue of the "Monthly Comment" of the I.C.C.'s Bureau of Transport Economics and Statistics. The "Comment" also reviews losses in dining-car service, changes in capitalization, and a variety of other topics, all of which are covered on pages 47 and 48.

SPEAKING OF PASSENGER BUSINESS: Luxury trains, like the "Shasta Daylights," pretty generally make money for the railroads which operate them. But passenger business as a whole is a losing proposition because of the enormous increases in wages and material costs and in taxes which have been forced on the railroads during and since the war. Hence, the roads in the Eastern district and Pocahontas region—with one or two exceptions—are asking for an increase of 12½ per cent in basic passenger fares, as one means of helping to put passenger service on a more nearly self-supporting basis. Their arguments for the increase, as presented to the I. C. C. this week at Brooklyn, N. Y., are summarized in our News account of the hearing.

STOP DANGEROUS AND COSTLY BOXCAR FLOOR BREAK-THROUGH

WITL

NAILABLE STEEL FLOORING In Detroit Testing Laboratory test to determine cantilever strength, 11,000 lbs. of pig iron were loaded on a panel consisting of three NAILABLE STEEL FLOORING boxcar channels welded side by side. The cantilever span was 30". Under this floor load of 733 pounds per square foot—far in excess of heaviest freight loading—the NAILABLE STEEL FLOORING section hadn't even reached the yield point.



In actual use as well as in laboratory tests it has been proved that NAILABLE STEEL FLOORING can't break through under any kind of heavy freight. Boxcars with NAILABLE STEEL FLOORING have safely hauled heavy copper cakes, automobile engines, highly concentrated loads of sheet steel and tinplate as well as hundreds of other commodities.

#### No Fork Truck Break-Throughs Either

NAILABLE STEEL FLOORING supports the biggest fork trucks, too, which so often break through conventional floors. For example, 23 cars are spotted each day at the Wabash Railroad's Ford Loading Dock in Detroit. Although they're all new or recently rebuilt, an average of five or six cars per day come in with large holes somewhere

throughout the length of the floor where fork trucks have broken through.

#### Durability Means Low Maintenance . . . Low Operating Costs

NAILABLE STEEL FLOORING stops the breakthroughs—and a good many other common floor troubles. It isn't chewed up by pinch bars or rough freight. Although nails are tightly clinched, they don't tear, splinter or deform the floor. All this adds up to lower maintenance costs—and lower operating costs as well. When floors stay in good condition for all types of freight, cars require less switching and empty movement.

To eliminate dangerous break-throughs and reduce maintenance costs, specify NAILABLE STEEL FLOORING for the next boxcars you build or rebuild.

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"Many delays and potential accidents have occurred and are continuing to occur, due to pig iron, lead, copper bars and similar commodities breaking through boxcar floors . . . this condition . . . is due to the type of equipment selected for this type of loading." (Car Department Officers Association Report by Committee on Preparation of Freight Cars, September 20, 1948)



# RAILWAY AGE

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# SUBSIDIZED RAILROAD SERVICE

The American railroads have, almost since their inception, performed "social services" for which they have not received compensatory payments from the direct beneficiaries. They have been required to keep branch lines going far beyond the time when these lines have ceased to earn expenses—solely to preserve the economy of direct railway service to communities which would be at a serious disadvantage without it. Many trains continue to be scheduled when their earnings no longer meet out-of-pocket costs of operation, just to provide service of a frequency which satisfies patrons' "demands" but which they are willing to pay for only in part.

When the recent war came along—with its increase of 100 per cent in freight traffic and 300 per cent in passenger traffic—the railroads were able to meet the staggering calls upon their services because they had assumed the cost, throughout the entire decade of the 1930's, of maintaining in usable condition a plant with a "stand-by" capacity at least double that for which immediate need existed. When the war came, it was the railroads which assumed practically all of the nation's increased burden of transportation—for the very good reason that the railroads were and are the only transportation agency which has ever accepted the obligation and the expense of preparing to cope with such emergencies.

In the matter of suburban passenger transportation in the environs of the largest cities, the railroads

haul daily "commuters" at rates which are probably closer to pure philanthropy—the cost of the operation being considered—than can be found anywhere else in modern business. Back in the 1920's and before, the provision by the railroads of services which did not pay their way seldom presented much of a problem, either to the railroads or to the nation. The railroad industry was then earning enough despite the absorption of the losses from these services to keep the average prices of its stocks above 100. It could readily attract all the investment capital it needed for additions and improvement to plant, by the sale of bonds-and even, in the case of a few companies, by the sale of equities. Since practically all of the nation's commercial traffic-freight as well as passenger-then moved by rail, the cost of the "social services" the railroads afforded was spread equitably in the general rate structure over the entire economic life of the nation.

#### Still Being Philanthropic

The situation has changed completely today. The railroads are still engaged in philanthropy, just as they were in the 1920's, but the losses incurred from such services are no longer spread fairly and imperceptibly over the entire range of the nation's commerce—because so much of this commerce is now moving otherwise than by rail. Indeed, the

carriers which use public property—highways, waterways, airways—as a place of business, either free or at fees which do not defray the costs, are *recipients* of assistance from the body politic, rather than contributors to such assistance, as the railroads are.

It is plainly evident that the absurd disparity in the treatment the railroads get, compared to the favors accorded to users of government-owned transportation plant, will not work much longer. Railroad stocks have not sold at par since 1931. The railroads cannot, speaking generally, raise money for improvements to their fixed property by the sale of either bonds or stocks-and as a matter of fact, have raised no new fixed-plant investment money of any consequence for the past 18 years. Such improvements to this plant as they have made have, perforce, been paid for out of earningswhich means that, for every \$62 so invested, \$100 has to be earned in net income, taxes being what they are. The government of the United States not only insists upon its 38 cents out of every sacrificial dollar of stockholders' money reinvested in railroad plant but is even trying improvidently to extract \$2 or \$3 billion from the industry for alleged excessive charges paid for transportation service during the

The fact is that a lot of service rendered by the railroads to the American people is subsidized and always has been subsidized—that is, it is paid for in part by others than the direct beneficiaries. The cost of this subsidized railroad service was equitably spread over the country's entire commerce so long as the railroads had a virtual monopoly of commercial transportation. Since alternative means of transportation have now been provided-by highway, water and air-where patrons receive subsidies instead of having to pay them, purchasers of transportation are in growing numbers refusing any longer to contribute to the unprofitable "social services" which the railroads are still forced to provide. As these purchasers of transportation have withdrawn their contributions to these philanthropic activities, the burden has fallen upon railroad investors; and the investors, in turn, have made known their refusal to engage any further in such transportation philanthropy by declining to put more of their money into new issues of railroad stocks and bonds.

#### Three Alternatives

The makers of national transportation policy are thus confronted with three alternatives, viz.

1. To permit the railroads to discontinue their unprofitable "social services"—a solution which is largely impracticable, at least as far as providing "stand-by" transportation capacity for military emergencies is concerned;

Transferring the cost of the railroads' "social services" from railroad patrons and investors to the whole community through remission of railroad income and property taxes and/or public assumption of the cost of providing unremunerative railroad facilities—e.g., suburban lines and decorative passenger stations—as grade crossing elimination is, in large measure, already provided\*;

3. Requiring all agencies of transportation—and not just the railroads, as at present—to assume charges equivalent to full costs of service; and requiring all agencies to bear a pro rata share of the unprofitable "social services" with which, so far, only the railroads have been burdened.

This third alternative is the one which all firm and informed friends of private enterprise would prefer, as being the one which would involve the minimum of government intrusion into transportation. It is an alternative, however, which would require a lot more self-disciplined foresight on the part of the immediate beneficiaries of the substantial government subsidies now given to transportation by highway, waterway and air than these beneficiaries have shown to date. Since the first alternative involves a sacrifice of the nation's military strength which is scarcely conceivable, the second alternative thus seems the more likely of adoption. This alternative could either be chosen deliberately, with safeguards to keep the purely commercial part of railroading on a strictly private-enterprise and self-supporting basis; or it could come about by default, by allowing the railroads to fall into government ownership-in which case it would probably not be just their present philanthropic services which would become a burden upon the taxpayers.

In national policy-making for transportation, not having any consistent policy at all constitutes, in itself, the adoption of a transportation policy—namely, drifting into the worst of all the available alternatives.

## TEST PERIOD AHEAD

During the next year or two close observers of railway maintenance-of-way practices and costs are going to keep their ears fastened more tightly to the ground than ever before. During this period these practices will undergo a severe test, and their performance under fire is going to determine largely

<sup>\*</sup>Such assumption by the public treasury of the cost of philanthropic railroad services would not, be it noted, constitute a subsidy to the railroads' regular commercial services or to the railroads themselves, as other forms of transportation are now subsidized—but would merely relieve railway patrons and investors from the cost of existing subsidies which can no longer be collected from them anyhow. Furthermore, it might not be necessary for the public treasury to absorb all of these costs. As a practical matter, the process would need to be pursued only to the point necessary (1) to make the rate concessions necessary to restore to the railroads the long-haul traffic they have lost for purely political reasons to subsidized transportation by highway, waterway and air; and (2) to raise railroad earnings and prospects to the point where railroad stocks and bonds could once more be readily sold to investors.

whether they must undergo major changes to get

greater efficiency and economy.

For years a small group of individuals, all experienced maintenance men, have been openly and severely critical of present methods of track construction and maintenance, insisting that many opportunities for effecting important savings are being neglected.

Some of these individuals confine their criticism to details of the track structure or of the methods followed in maintaining it, but others assert that important changes in basic concepts offer the only hope for substantial economies.

It is not the purpose of this discussion to comment on either the nature or the validity of these criti-

cisms.

Quite likely future experience will provide the only trustworthy answer. However, several observations are in order at this time. One is that, instead of becoming discouraged over their lack of progress, the critical individuals have persevered in their efforts and are even gaining strength through new additions to their ranks. Another is that, regardless of its merits, the criticism is proving beneficial in at least one respect—it is an effective deterrent against a feeling of complacency on the part of maintenance men in responsible positions.

Now has come the 40-hr. week to bolster the position of those who are critical of present practices. A stark fact is that the shorter work week must not be allowed to result in more than a slight increase in maintenance costs. And there can be no retreat from the high maintenance standards that have become commonplace today. It is true that most railroads are planning to take steps calculated to minimize the added cost of the 40-hr. week, but to a considerable degree these measures consist of the extension or intensification of present practices and do not contemplate any changes in fundamentals, as advocated in some quarters.

Thus, present maintenance practices are facing a crucial test.

Events of the next few years will prove whether these practices will be equal to the situation or whether they must be revamped in important respects in order to keep maintenance expenses within reasonable limits. It will be for the purpose of resolving this question that, beginning September 1, maintenance costs and results will be studied with unusual care by many sharp eyes.

## NO NEW CARS— NO IMPROVEMENTS

In his address before the annual meeting of the Mechanical Division of the A.A.R., at Chicago during the last week in June, J. H. Aydelott presented the rosy side of the freight-car situation on the railroads at the present time. The addition of 250,000 new cars and the retirement of 240,000 old cars in a little less than three and one-half years; 30,000 cars repaired per month, many of which have been upgraded; an increase in box cars on home lines from a low of about 17 per cent to 44.4 (as of May 15) are all facts indicating that the railroads have done well in improving freight-car inventory.

The aspect of the situation which is considerably less rosy lies in the outlook for the future. Mr. Aydelott refers to the bearing which freight-car conditions have on the payment of freight claims by the railroads. The loading of commodities in cars in unfit condition to carry the load without damage, he said, "influenced claim payments to the extent of more than three million dollars." But, he said, more than 35 million dollars was charged to unlocated damage, some considerable portion of which may have been due to the run-down condition of many box and refrigerator cars, "which qualities may be more or less inherent in the construction of the car itself." The railroads, he said, hope to improve the riding qualities by developing better trucks and im-

proving wheel conditions.

The gloomy part of this picture is the fact that orders for new freight cars are not being placed. Whether the reason is a dislike of current prices or a recession in the urgency of the need for additional freight cars, it promises a cessation of further improvement in freight-car conditions when the current backlog of orders is cleared up. The 250,000 new cars installed and the 240,000 cars retired during the past three and one-half years have by no means removed the major portion of the freight rolling stock, the poor riding qualities of which are more or less inherent in the construction of the cars. Trucks capable of greatly improved riding qualities at all speeds—as compared with the present A.A.R. standard coil-spring type-are available. Any condition which delays the opportunity for increasing the number of cars equipped with such trucks produces a definite future handicap for the railroads in a situation constantly growing more competitive.

The railroads must have either much higher revenue from fares, or sharp reduction in operating costs, to break even on passenger service.

The time is approaching when this problem must have far greater attention as a matter of public policy. The community continues to pour enormous subsidies, through an ever-expanding superhighway system, into the chief competitor of public transportation—the private automobile.

In so doing we are steadily accelerating the major headache

of all metropolitan communities, the traffic problem. Some day we will be driven to admit that we cannot provide enough streets and highways for every individual to drive his own automobile into the congested area.

Prudent foresight should dictate a governmental policy toward the railroads and other public carriers that will enable them to do their part, by offering better service, in solving the urban transportation problem.

—The Chicago Daily News



The new Armourdale classification yard has 40 tracks arranged in six groups. This night view from the hump illustrates the effectiveness of the floodlighting system

# Improvements Double Speed of Big Yard

Modernization of Rock Island's large terminal at Armourdale, Kan., including installation of modern hump-retarder layout, results in faster handling of cars and other important economies

With the primary objective of rendering better service to its shippers the Chicago, Rock Island & Pacific has spent more than \$1,500,000 in modernizing its extensive yard facilities at Armourdale (Kansas City), Kan. In this project the road converted a portion of the old flat yard into a modern 40-track hump-retarder classification yard with a daily capacity of 4,000 cars, and made other changes to obtain receiving and departure tracks of sufficient length to permit 125-car trains to be handled without doubling. It also installed a communica-

tion network that includes loud-speakers, radio, telephones, teletype and intercommunicating units. As a result cars are now being moved through the terminal in about half the time formerly required, and at the same time the road is realizing substantial economies in operating costs—economies that are expected to return the cost of the improvements in less than two years.

Armourdale yard might be termed the freight hub of the Rock Island. Through this yard moves practically all through east-west traffic carried by the road. In both directions from this point the company's 8,000-mi. system fans out to serve rich producing and consuming areas. East and north there is a network of lines east to Chicago and north to Minneapolis-St. Paul, while a separate line reaches to St. Louis. West and south the system branches out again, with one line extending to Denver and Colorado Springs, another to Tucumcari, N. M., where connection is made with the Southern Pacific to form the "Golden State route" to the Pacific coast, and a third reaching down through Oklahoma and Texas to Dallas, and thence via the Burlington-Rock Island to Houston and Galveston.

#### The Road's Freight Hub

Not only does Armourdale serve as the gateway for east-west traffic moving over the company's own lines, but it also must handle traffic interchanged locally with 11 other roads. During an average month about 120,000 cars are handled through the yard, although the volume may be expected to reach a peak of 150,000 cars monthly at the height of the wheat and cantaloupe movements.

Armourdale yard is arranged in an east-west direction, extending westward from Second avenue for a distance of nearly three miles. On the north it is flanked by the double-track main line of the Union Pacific and by tracks of the Kansas City Terminal. From Kansas City to Topeka, Kan., the Rock Island operates over the Union Pacific, and at Armourdale yard it has three junction points with that road, the most westerly of which, Kaw Junction, is located at the west end of the yard. On the south side of the yard in the vicinity of Twelfth street the company has an extensive engine terminal and other mechanical facilities. The yard is spanned by viaducts at four locations, namely, Seventh street, Mill street, Tenth street and Eighteenth street.

#### Was Formerly in Three Parts

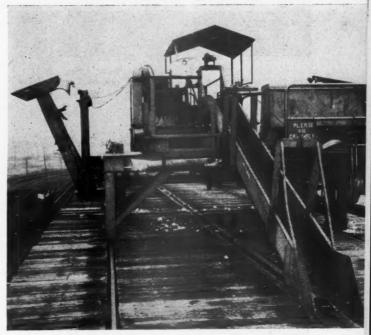
Before the recent improvements were undertaken the yard had three principal components, placed end to end. The easterly of these was known as the Seventh Street yard, the central as the Eighteenth Street yard, and the most westerly as the "New" yard, the latter designation deriving from the fact that the westerly unit, having been built in 1929, was the last of the three components to be completed. One of the newest structures in the yard was the main yard office on the south side in the vicinity of Sixteenth street; it was built in 1945.

Since a large volume of perishable traffic is handled through the yard an important element of the existing facilities was a timber icing dock, 1,962 ft. long, in "New" yard near its south side. This was a high-level dock and for 900 ft. of its length there was a lower deck for body icing on which two mechanical ice slingers operated. From an ice manufacturing and storage plant on the south side of the tracks, ice cakes were delivered to the dock by a conveyor located in a tunnel extending under the tracks.

Experience with the yard during the war years and afterward indicated a need for modernizing it to secure greater capacity for the purpose of relieving congestion and speeding up car movements, and also to re-



Each control tower is on an "intercom" hook-up with the other towers and the hump yardmaster, and each of them also has a teletype machine for printing switch lists



Two Rico Platform Icers have been installed on the upper deck of the icing dock. These machines break the ice cakes into the sizes desired and deliver them direct to the bunkers of refrigerator cars

The console in the general yardmaster's office has keys for 40 talk-back speakers and 10 paging speakers





The yard is blanketed by a system of talk-back and paging speakers. This talk-back speaker is in the classification yard

Oil is injected into the journal boxes of cars as they move up the approach track to the hump



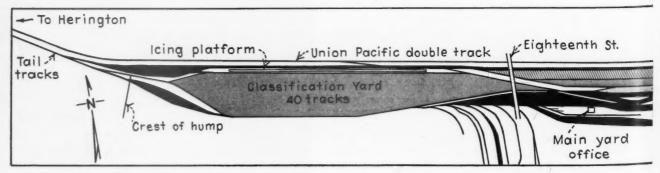
duce operating costs through greater efficiency. Careful studies developed the fact that the necessary additional capacity and greater efficiency could be obtained by proper utilization of the existing trackage, converting "New" yard into a modern hump-retarder classification yard, and making such other track changes as might be found necessary to provide receiving and departure yards of adequate length and other trackage required to assure the proper functioning of the classification yard.

In converting "New" yard into a gravity classification yard, a hump, requiring 27,000 cu. yd. of fill (which was obtained from a borrow pit about two miles to the west) was constructed at the west end and 40 of the existing tracks were incorporated into the yard, being arranged in six groups of four to eight tracks each. A factor in the design and location of the hump was the necessity of constructing two tail tracks, 8,000 ft. long, to the west of the hump, for use in humping cars. The amount of space available for these tracks was limited because at this point the Kansas river swings close to the railroad's property from the south. To allow room for the tail tracks the hump was placed a short distance within the limits of the west end of "New" yard, resulting in the tracks in this yard being somewhat reduced in length, although even as shortened they have capacities ranging from 27 to 64 cars.

#### **Design Follows Modern Practice**

The design and arrangement of the hump, the classification yard and related facilities generally follow conventional modern practice. There are 10 Union Switch & Signal Co. electro-pneumatic car retarders, and all switches at the entrance to the yard on the hump incline are equipped with electro-pneumatic machines, furnished by the same company, which are controlled from three towers. The leads are laid with new 132-lb. rail through the retarders, and the new trackage required beyond these points, through the classification lead switches, was built with new 115-lb. rail. No. 8 turnouts with self-guarded frogs were used. To minimize rail wear and to facilitate car movements into the yard a two-rail Meco rail and flange lubricator was placed on the main lead immediately below the first retarder.

Ample illumination of the hump yard for night operation is afforded by five floodlight towers, including an 80-ft. tower for lighting the hump, and four 100-ft. towers for lighting the yard, two at each end. Three



In this diagrammatic plan of the modernized yard the shaded areas show the hump classification yard, the receiving

other floodlight towers illuminate other components of the yard.

A single-story building at the hump crest for the hump yardmaster, a service building nearby and a building for housing compressors are all of concrete-block construction. The service building has separate lockers and showers for switchmen and tower operators, for crews of hump engines, and for the journal-box oilers. The compressor house contains, among other equipment, two Chicago Pneumatic compressors, each belt-driven by a 75-hp. General Electric motor. Also located in the compressor building is a shop for the use of the switch, signal and retarder maintainers. Outside the compressor house are two air-storage tanks, each with an atmospheric cooler.

The control towers, of brick, steel and concrete construction, are three stories high, with an automatic oilburning hot-water heating plant on the first floor, and signal batteries, relays, etc., on the second. Both the second floor and the operator's office on the third floor are heated by Trane unit heaters. The operator's office in each tower is enclosed on three sides with glareresistant glass windows fitted with "windshield" wipers, and is finished on the interior with asphalt-tile floors and acoustical ceiling. Equipment in each office, in addition to the control machine, includes a teletype printer, an "intercom" unit that is part of a system serving the three control towers and the hump yard-master's office, a lavatory and toilet, and a water fountain.

Car movements over the hump are controlled by a color-light signal at the hump and six repeaters, which are operated by the hump conductor and, if necessary, by the operator in Tower "A." Since the switching locomotives assigned to the yard are equipped with radio, as described below, this medium may also be used for issuing humping instructions.

As cars move up the hump lead, oil is injected manually into the journal boxes on each side. The oil for this purpose is stored nearby in a buried tank car, from which it is pumped by one of two motor-driven rotary pumps housed in a small steel shed at the foot of the embankment. A switch controlling the pumps is placed in a box mounted on a post beside the track.

So hump locomotives may be serviced without moving to other points in the yard, fueling facilities and an outlet for water were installed adjacent to the hump. Fuel oil is stored in a buried tank car and is pumped to locomotives by a motor-driven Worthington vertical turbine pump.

As part of the work of transforming "New" yard into a hump-classification yard it was necessary to move the icing dock to the north side of the yard. In shifting the dock to its new location it was cut into 70-ft. lengths (five panels), and each length was then moved intact on a special flat car. The project also involved building a 400-ft. extension to the existing tunnel to reach the new location of the ice dock.

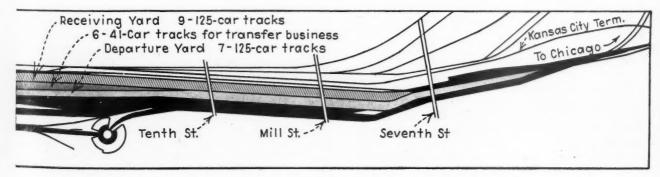
After the ice dock was moved its efficiency has been greatly increased by installing on the upper deck two Rico Platform Icers. These machines, weighing seven tons each and traveling under their own power on rails supported on the upper deck, pick up cakes of ice from the conveyor on the platform, break them in pieces of the desired size, and deliver the pieces through chutes directly into the bunkers of cars on both sides of the dock.

Each machine is operated by one man, and in addition two men are required on each side to open and close the bunker hatches. It is reported that with one of these units an average of only 40 sec. is required to ice a car. Aside from the greater speed and economy of machine operation as compared with manual icing, another reported advantage is the elimination of waste and delays from shrinkage of ice cakes placed on the platform in advance of the arrival of cars to be iced.

#### Other Changes Make 125-Car Tracks

Track changes required at the east end of "New" yard included the installation of a ladder track on the south side, cutting across about 11 tracks. This ladder and an existing ladder on the north side converge into a double-track lead extending into the departure yard. To provide departure and receiving yards of adequate length the Seventh Street and Eighteenth Street yards were joined by "cutting through" most of the tracks comprising them. In this way a receiving yard was created with nine tracks capable of accommodating 125-car trains. Similarly the departure yard has seven 125-car tracks. These two yards are generally parallel with each other, with the receiving yard on the north, and between them, adjacent to the east end of the classification yard, are six tracks for receiving strings of cars destined for transfer to connecting lines. Other features of the new track arrangement include a westbound running track along the north side of the yard and an eastbound running track along the south side.

Direct supervision over the operation of the yard is



and departure yards, and the tracks for handling transfer business. Dark areas represent other trackage

in the hands of three yardmasters, all reporting to the general yardmaster at the main yard office at Sixteenth street.

One of the three yardmasters is in charge of the hump and the "bowl" and is stationed in the small building at the crest of the hump. Another yardmaster, with an office at the Eighteenth Street viaduct, near the east end of the classification yard, has supervision over trimming operations and the making up of trains. The third yardmaster, stationed in an office at Seventh street, is in charge of the receiving and departure yards.

#### Communications Blanket Yard

As modernized, the entire yard is blanketed by a system of paging and talk-back speakers which centers in a console in the general yardmaster's office. This console has keys for 40 talk-back speakers and 10 keys for paging speakers, although the number of speakers actually installed to date is slightly less than the number of keys on the panel. Through the strategic location of the speakers in this system the general yardmaster is able to reach and converse with train crews or other personnel throughout the yard area, including the icing dock on which three talk-back speakers are located. Most of the talk-back speakers are outside but three of them are in buildings, including the hump yardmaster's office, the Eighteenth Street yard office, and one at Kaw Junction.

An unusual feature of the talk-back system is a book-up at the console by means of which a car checker, using any of the talk-back speakers in the yard, can converse directly with a car clerk in the general yard-master's office. The outside units are unusual in that each incorporates only one, instead of two, amplifiers. It is reported that the single 8-in. amplifier in each unit has a satisfactory range in both directions and that the man on the ground may carry on a conversation through one of the talk-backs from a distance of 50 ft. or more.

offices and switching locomotives is afforded by a two-way radio system which has a range of 15 miles. This system includes a 30-watt Motorola transmitter placed at the base of a 100-ft. tower. The transmitter is remotely controlled from five fixed points—the main office, the three yard masters' offices, and a switch shanty at Second street—by audio remote control units of the Electronic Communications Equipment Company. Mobile stations, consisting of Sperry equipment, are installed in 13 Diesel switchers. The equipment at the fixed control points is so arranged that it can be used as an "intercom" system between these five points, functioning independently of the stations in the switchers.

#### **Teletype and Pneumatic Tubes**

An important element of the communications system is the "round robin" intercom hookup between the hump office and the three control towers. So that defects in retarders, switches or signals may be promptly reported, the maintainers' shop in the compressor building was included in the intercom system. A sixth point in this hookup is at Kaw Junction.

Teletype is another communications tool employed to

good advantage at the modernized yard. Consists of freight trains moving toward Kansas City are teletyped ahead for the preparation of switch lists. For westbound trains the consists are teletyped from Trenton, Mo., 100 mi. east of Kansas City, and for eastbound trains they are transmitted from Herington, Kas., 147 mi. to the west. Switch lists are prepared in the general yardmaster's office and transmitted by teletype to the hump crest and the three control towers. The unit in the hump office includes a duplicating printer which makes an extra copy of each switch list for the use of the hump conductor.

Waybills are shunted about the yard by a system of pneumatic tubes. As westbound trains pull into the receiving yard the waybills are dropped off at the Seventh Street yard office and immediately transmitted through a 4-in. tube, 6,000 ft. long, to the main yard office. Waybills from eastbound trains are sent from Kaw Junction to the main office by a 4-in. tube, 8,000 ft. long. In addition, there is a 3-in. tube for transmitting icing instructions, which extends from the main yard office underneath the tracks to the north side and thence to the icing platform.

#### **Procedure and Progress**

In starting construction work on this project the westerly part of "New" yard was taken out of service and the tracks removed to permit grading to proceed on the hump. While this work was in progress the easterly portion of the yard was used for storing cars. The work was started in September, 1948, and the hump was placed in operation on February 9 of this year.

At that time, six groups of tracks in the classification yard, comprising 23 tracks, went into service. Further progress in putting the classification yard into operation was dependent somewhat on the speed with which the icing dock could be moved to its location. This work was completed in time to permit the yard to go into full operation about May 15. In the meantime the work of making the other track changes was being carried out to interfere as little as possible with operation of the yard. Final work on the project was completed early in July.

All track work, as well as the installation of the signaling and communications systems and the moving of the icing dock was performed by company forces. The grading was done by Grosshands-Petersen, Inc., Marysville, Kan., the buildings were constructed by the Collins Construction Company, Kansas City, Mo., and the ice tunnel was extended by the List & Weatherly Construction Co., Kansas City.

This project was carried out under the general supervision of F. W. Thompson, chief engineer of the Rock Island. The communications system was designed under the general direction of C. O. Ellis, superintendent of communications, and the signaling system under the late C. R. Swensen, signal engineer, who died on June 7. The work in the field was under the direct supervision of J. T. Fitzgerald, construction engineer, until May 1, when he left to take charge of the construction of a new hump yard that the company is building at Silvis, Ill. After that date G. A. Gunderson, resident engineer, was in charge of the work at Armourdale yard.

# Air Lines Still Building Passenger Business

I.C.C. bureau's "Monthly Comment" shows they performed 33.2 per cent of combined air and railway first-class passenger-miles during this year's first quarter; articles show dining-service losses and capitalization and working-capital trends

Domestic air lines performed 33.2 per cent of the combined air and railway first-class passenger-miles during this year's first quarter, as compared with 28.4 per cent in the same 1948 period, according to figures presented by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission in the latest (July) issue of its "Monthly Comment." The railway first-class passenger-miles included in the combined total are those of travelers in parlor and sleeping cars; and that traffic in this year's first quarter was off 7.6 per cent from the previous year while the air line passenger-miles were up 15.5 per cent.

The bureau's figures also showed that the air lines' proportion of the first-class passenger business rose from 11.1 per cent in 1945 to 34.6 per cent in 1948. The largest proportion handled by them in a prewar year was 13.1 per cent in 1941; and their 1938 proportion was 6.1 per cent. Air line passenger miles in 1948 were down 3.1 per cent from 1947, but first-class rail traffic was off 10.2 per cent.

#### **Diner-Service Losses**

Another article in the "Comment" compared the 1947 and 1948 results from operations of dining and buffet services by Class I roads. It showed that, for every \$1 of revenue collected for such services in 1948, the carriers incurred direct expenses of \$1.38, which did not include the cost of transporting dining cars nor any overhead costs. The \$1.38 compared with a 1947 figure of \$1.31. The aggregate loss from the service was \$31.4 million in 1948, an increase of \$5.9 million or 23.1 per cent above the 1947 deficit. The respective 1947 and 1948 revenues from the service were \$83,400,000 and \$82,270,000, while the expenses, in turn, were \$108,952,000 and \$113,712,000. The dining-service operating ratio was 138.22 in 1948, as compared with 130.64 in 1947.

Similar data were also shown for 19 large roads, i.e., those having over \$1 million of dining and buffet revenue in 1948. There the range of 1948 dining-service operating ratios was from the Southern's low of 108.01 to the Chesapeake & Ohio's high of 183.66. Those two roads were also in the extreme positions in 1947, their ratios for that year having been 102.01 and 179.85, respectively. All of the 19 roads, except the New York, New Haven & Hartford and the Atlantic Coast Line, showed higher ratios in 1948 than in 1947. The drop in the New Haven ratio was from 127.82 to 124.21, while that of the A.C.L. was down from 125.85 to 117.46.

Reporting on changes in the capitalization of Class I line-haul roads, the bureau noted that the total longterm debt of those roads, as of the close of 1948, amounted to \$8,960.5 million as compared with \$8,831.8 million in 1947 and \$10,462.8 million in 1943. Railroad reorganizations during the 1944-48 period were called an "important" factor in the 14.4 per cent reduction since 1943. That net reduction, however, was the composite result of declines in various other forms of debt which were partially offset by an increase of \$667.4 million or 86.3 per cent in equipment obligations. Equipment obligations outstanding at the end of 1948 totaled \$1,440,976,000 as compared with \$773,604,000 as of December 31, 1943. Meanwhile, total of debt in default dropped from \$757,808,000 to \$139,267,000, while the total of receivers' and trustees' certificates dropped from \$9,326,000 to \$13,000.

Annual interest accruals on all classes of long-term debt declined from \$443.4 million in 1943 to \$315.8 million in 1948, or 28.8 per cent. This decrease "is double the corresponding percentage reduction in long-term debt," the bureau pointed out, adding that the "substantial" drop may be attributed "not only to the large absolute reduction of debt but also to the generally lower interest rates on reorganization debt as well as on refunding and other obligations issued, including equipments."

#### **Working Capital**

Other figures assembled by the bureau showed the net corporate working capital of the Class I roads as of April 30, 1949 and 1948. For the roads as a whole, the "quick assets" (cash and temporary cash investments) declined during the one-year period only 0.3 per cent—from \$1,722 million to \$1,716.5 million; but that small decrease was a composite of an \$84.4 million drop in the "quick assets" of Western-district roads, and increases in other territories as follows: Eastern district, \$10.4 million; Pocahontas region, \$27 million; Southern region, \$41.5 million.

As of April 30, 1949, the "quick assets" of Class I roads as a whole were sufficient to cover 86.6 per cent of the total current liabilities. The corresponding percentage one year earlier was 89.9 per cent. In the Southern region as of both dates "quick assets" exceeded current liabilities, the ratios having been 110.9 on April 30, 1949, and 106.6 a year earlier. The April 30, 1949, ratios in other territories were below 100.

As to net corporate working capital (total current

assets less total current liabilities), the figures showed that for Class I roads as a whole it dropped from \$1,-503.5 million on April 30, 1948, to \$1,413.6 million on April 30, 1949, a decline of 6 per cent. The latter was a composite of 35.6 and 4 per cent increases in the Pocahontas and Southern regions, respectively, and respective declines of 8.9 per cent and 10.9 per cent in the Eastern and Western districts. Excluding materials and supplies, the net working capital for the roads as a whole dropped from \$701.6 million on April 30, 1948, to \$528.2 million on the same date this year, a decline of 24.7 per cent. This decline reflected a drop in all territories except the Pocahontas region where this "net" was up 235.8 per cent-from \$5,787,000 to \$19,434,000.

#### Four Months Traffic and Revenue

Analyzing revenue traffic statistics for the first four months of this year, the bureau noted that the freight volume, as measured by ton-miles, was down 9.1 per cent from that of the first four months of 1948. By territories the decreases ranged from 4.2 per cent in the Pocahontas region to 11.1 per cent in the Southern region. Meanwhile the freight revenue was off only 2.3 per cent, its failure to drop relatively as much as traffic having been due "primarily" to rate increases authorized by the commission, the bureau explained. The freight revenue for the Pocahontas region was up 5.8 per cent, as compared with decreases of 0.7 per cent in the Eastern district, 4.1 per cent in the Southern region, and 4.4 per cent in the Western district.

The four-months passenger business, as measured in passenger-miles, was down 11.7 per cent as compared with the first third of 1948. The passenger revenue was down only 3.9 per cent, because passenger fare increases, as the bureau said, "tended to compensate in some measure for the appreciable decrease in traffic." Later on in the "Comment" the bureau summarized the first-quarter returns of intercity motor carriers of passengers, showing that, on a passengers-carried basis,

the business of these bus lines was down 7.9 per cent from that of the first three 1948 months. The comparable decline in the number of passengers carried by Class I roads was 13.7 per cent.

#### Traveler and Employee Fatalities

Another article presented figures and charts showing the trend of fatalities to travelers and employees in railway accidents since 1922. The traveler fatalities include those killed in railway accidents of all kindstrain, train-service, and non-train. Likewise the employee fatalities include employees, both on duty and off duty, killed in any of these types of accidents. The bureau explained its use of the all-inclusive figures in this way: "A certain amount of movement about the railroad premises is a necessary accompaniment of both rail travel and employment; consequently, to present the complete picture of safety levels, the fatality rates are based upon all rail travelers and employees.

As the bureau read the figures, the passenger fatality rates of the 1945-48 period "give definite promise of a return to the prewar downward trend, although the low rate reached in 1937 (1.26 fatalities per billion passenger-miles) remains a record." The 1948 rate was 1.31, while those of 1947 and 1946 were 1.63 and 1.79 respectively. The bureau calculated that the average of these rates of the past three years was 64.7 per cent below the five-year average for 1922-26.

The bureau saw the employee fatality rates showing a "distinct downward trend marred somewhat by a major upward bulge during the war years." The three postwar years, 1946-48, it added, "reflect a return to the prewar downward trend, each rate being below the previous record set in 1939." The latter figure was 0.211 fatalities per million man-hours, while the 1946, 1947 and 1948 rates, in turn, were 0.205, 0.210, and 0.179. The average rate for these last three years, the bureau calculated, was 27.2 per cent below the average for 1941-45, and 45.1 per cent below the average for 1922-26.

# Communication . . .

#### When the Ox Begins to Bleed!

WASHINGTON, D. C.

TO THE EDITOR:

The attached editorial from the Wall Street Journal prompts another question:

Where were all these fighters against socializing this and that way back 25 years ago, when the railroads were fighting the inauguration of the Federal Barge Lines? For that matter, where are some of them right now? Down here in Washington, fighting for appropriations for more inland waterways and barge lines.

Nobody worries until his own ox starts to bleed!

[The editorial referred to in the foregoing letter reads as

"The Charlotte (N.C.) News tells the story. A Charlotte doctor invited one of his friends, a real estate man, to a public meeting on socialized medicine. The friend said he couldn't make it.

"'Why, aren't you alarmed at the threat of socialized medicine?' asked the doctor. 'Sure,' said his friend, 'but where were you doctors all these years the real estate men have been fighting socialized housing?'

The doctor had no answer for that.

"Everybody lets every interest group fight its fight alone. The doctors fight socialized medicine, the real estate men fight public housing, each business or industry fights its own battle against government encroachment. But never together.

"'Divide and conquer' is a marvelous strategy. It swallows its victims before they know they're bitten."]

# San Francisco to Portland by "Daylight"



On July 10 the Southern Pacific placed in service between San Francisco, Cal., and Portland, Ore., a pair of luxury passenger trains, appropriately christened the "Shasta Daylights." The new trains—described in detail in another article in this issue—cover the 718 mi. between San Francisco and Portland, much of which is through mountainous terrain, in 15½ hr.—three hours faster than the present best train time and the shortest

in the history of the "Shasta Route." Northbound, the ferry connection for the "Shasta Daylight," train No. 10, leaves the foot of Market street, San Francisco, at 7:45 a.m. The train departs from Oakland Pier, 4 mi. across San Francisco bay, at 8:10 a.m., and arrives at Portland at 11:15 p.m., making 11 intermediate stops. The average speed for the 714-mi. rail trip is approximately 47.5 m.p.h.



# New Cars for the "Shasta Daylights"

Two 15-car trains, built by Pullman-Standard, embody extensive use of aluminum — One three-car articulated unit in each train — Other mechanical and color innovations

The two new Southern Pacific 15-car Diesel-driven "Shasta Daylight" streamliners which were placed in daily service on July 10, between San Francisco, Cal., and Portland, Ore., embody the same general structural design as previous S.P. "Daylights" built by Pullman-Standard and include generally the same refinements in interior details, except that the superstructures are made of aluminum instead of high-strength steel.

Motive power is supplied by two types of 6,000-hp. Diesel-electric locomotives, one built by the Electro-Motive Division of General Motors and the other a product of American Locomotive Company and Gen-

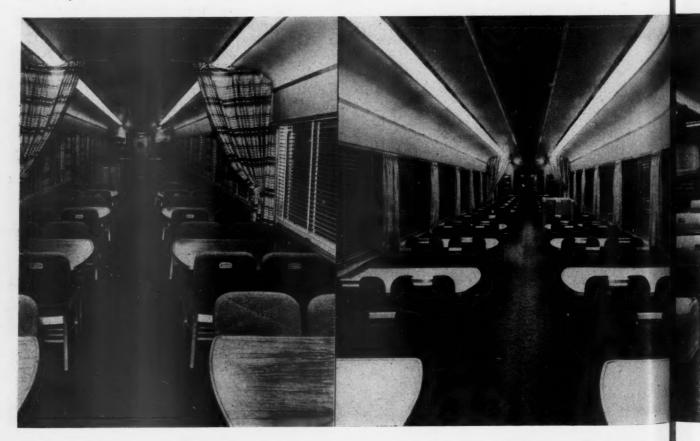
eral Electric. Each of the two trains includes a triplearticulated unit consisting of a coffee shop, a kitchen and a dining car (as in the previous trains); fluorescent lighting; luggage elevators in the chair cars; and radio and public address equipment throughout all cars. except the baggage-postal car.

Electric power for the passenger-carrying cars and the air-conditioning is supplied by Waukesha equipment. The baggage-postal car has a Safety axle-driven body-hung generator. Heat for the kitchen range and the hot water supply is furnished by propane gas.

The consist of each train is identical and includes the following: one combination baggage-postal car; one

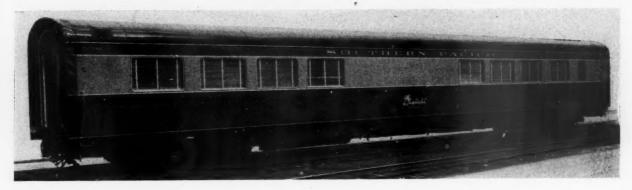
Coffee shop

Diner





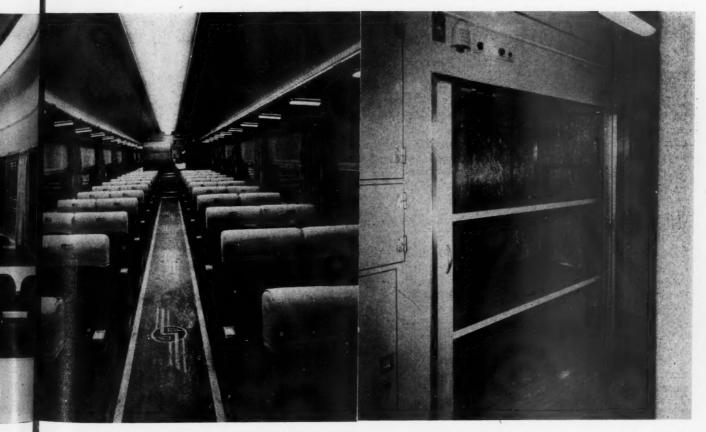
One of the S. P. three-car articulated units



A typical exterior—The tavern car

Coach

Luggage elevator shelves from the interior





The tavern car

chair car having news agent's space, seating 46; three full chair cars, each seating 48; one chair car having dining crew's dressing room and toilet, seating 38; one triple-unit consisting of a coffee shop, seating 66, and a diner, seating 66, separated by a kitchen car which serves both; three chair cars, each seating 48; a tavern car, seating 54; another chair car seating 48, and a parlor-observation car remodeled by the railroad from an existing car and seating 32.

The car-body framing utilizes Pullman-Standard girder-type construction and is made principally of aluminum supplied by the Aluminum Company of America. For example: side posts and carlines are Alcoa Alclad 61S-T62 alloy; end and door posts are 14S-T alloy; side sheets, pier panels, letter boards and roof sheets are 24S-T3 alloy; and side-plate sections, sash rests, purlines and other non-formed parts are 14S-T alloy.

#### **Aluminum Saves Weight**

The underframes, including center sills, are made of steel and welded throughout, except for application of the cast-steel center plates. The use of strong aluminum alloys in the superstructures only, above the underframes, is estimated to effect an average saving of 5,300 lb. per car or about 40 tons for a 15-car train, which reduces power requirements proportionately on fast schedules and heavy grades.

The car trucks are six-wheel type for the baggagepostal car and at the articulations of the triple-body coffee shop-kitchen-dining unit; all other trucks are four-wheel type. The journal sizes for all trucks are 6 in. by 11 in. and Timken roller bearings are supplied throughout. Each car has a Fenwal journal-box heat indicator and alarm.

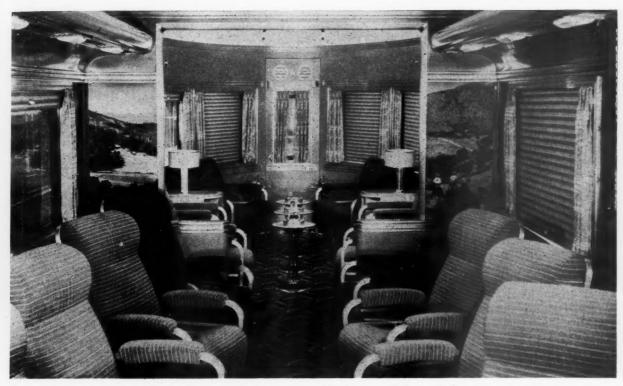
The air brakes are Westinghouse high-speed equipment including electro-pneumatic features for controlling the application and release of air from the brake cylinders. An anti-wheel-slide device is installed. Each car has two hand brakes.

#### Chair Cars Have Luggage Elevators

All window sash units are double-glazed, having safety glass for the inside pane and ¼-in. polished plate for the outer pane. Window sash openings throughout the train are 30 per cent higher than usual and over 60 in. wide so as to give passengers maximum vision not only out but upward in scenic mountainous country. Dodge venetian blinds are used in the tavern car and in the coffee shop and diner of the triple-articulated unit. Other car windows have shades. All cars are fully air-conditioned except the baggage-postal car.

All cars but the baggage-postal and the kitchen cars have radio speakers. Each of the chair cars has a hand luggage elevator adjacent to the entrance at the vestibule end. This feature, as on the previous "Daylights," enables the porter to take suitcases and other passenger luggage into the car without using the car end-door, as the baggage is placed on shelves in the luggage compartment from the outside and then is raised in position to a compartment inside the car. The shelves are raised and lowered by motor-driven screws controlled from pushbutton stations.

Practically all the kitchen and pantry equipment is made of Monel metal. The refrigerators are equipped with Carbofrezer dry-ice units. Service buffets in the



One of the "Shasta Dayligh:" observation lounges

lobbies of the coffee shop and dining cars have Lowerator automatic dispensers for cups and saucers. A steward's cabinet desk is located in the center of each of these two cars.

#### Color and Design Research

The "Shasta Daylight" streamliners are individually styled to an exceptional degree as a result of painstaking research into colors, local arts and crafts, folklore and landmarks of the territory served by the new trains, this work being done by the Pullman-Standard color and design department, in close cooperation with the Southern Pacific.

The exterior colors and striping are the same as on existing "Daylights," namely orange, red and black. Car interiors are bright and cheerful with special attention to appropriate interior fabrics, drapes, full-colored murals, art and etched mirrors. One series of chair cars is done in Odell blues and Oregon cedar tones; another in tones of Summit green, pine brown and cedar; a third in Canyon tan; and a forth in Shasta yellows, browns and cedar red. Spacious men's and women's lounges in all cars are done in the same general colors as used in the main coach compartment.

For maximum comfort and relaxation in the chair cars, de luxe coach seats feature extra soft foam rubber and are of the rotating-reclining type. The reclining mechanism is controlled by an Arm-Kap which is pushed to the rear ½ in. to lock the back in place. A new Hammok-Suspension provides a flexible panel to serve as a universal adapter and lend soft, firm support to the body. An individual free-turning foot rest, covered with rubber, is installed on the back of

each seat and may be adjusted to any of four posi-

The attractive diner has a carpet of blue green in a forest leaf pattern, draperies in gold, seat coverings in two tones of autumn red, and table linen in gold with autumn leaves in reds and browns forming an unusual design pattern.

The upper walls and bulkheads of the diner are done in cloth backed California oak veneer as a natural background for the fall coloring. Four full natural-color

"Shasta Daylight" Car Lengths, Weights and Seating Capacities

	Length over couplers, ft.	Estimated weight, lb.	Seating capacity
1 baggage-postal car	85	137,150*	****
1 chair car	85	125,090	46
1 chair car	85	123,800	48
1 chair car	85	123,800*	48
1 chair car	25	126,883	48
1 chair car	85	125,158	38
1 triple unit		314,234	
1 coffee shop car	*****	****	66
1 kitchen car	****	****	
1 dining car	****	****	. 66
1 chair car	85	126,883	48
1 chair car	85	123,800	48
1 chair car	85	126,883	48
1 tayern car	85	123,400*	54
1 chair car	85	126,800	48
1 parlor-observation *Scale weights		153,550	32

murals, made from kodachromes and colored by hand, are used on the bulkheads, further complementing the

The coffee shop of the three-car unit is in a still different color key, making it gay and informal in



One of the six-wheel trucks used at articulated connections

character. Browns, Cascade blues, and cedar red are the basic color tones. Carpets are in a fern pattern in three tones of Redwood brown, seat coverings in an attractive combination of blue and cedar, with draperies in cedar and blue. Exceptionally large murals are done in blue tones covering the entire ends of this room, creating an illusion of space and bringing an outdoor feeling of lakes and mountains into the room.

#### Tayern and Observation Cars

An outstanding decorative feature of the tavern car is the bar section, which occupies 18 ft. at the central

portion of the car and is brilliantly illuminated from an overhead canopy. The bar front and canopy have wood panels showing animal life of the Northwest. At the back bar, between glistening display cases, is an illustrated transparency in full natural color, made from a photograph of Timberline Lodge. Two 27-seat sections, one on either side of the bar, are done in blue, cedar, Monterey-finished wood and pale yellow.

In the 80-ft. parlor-observation car, interior walls and ceiling are in four tones of blue. Foam rubber seats, upholstered in henna or blue, revolve and recline. Soft carpets in three tones of brown, decorated with a leaf pattern, are laid on a pad of sponge rubber. Six photo murals depict scenes of the "Shasta Route."

## Partial List of Materials and Equipment on the New "Shasta Daylights"

Steel for underframes Carnegie-Illinois Steel Corp., Pittsburgh, Pa.
Truck frames
Truck springs
Spring Division, New York WheelsStandard Steel Works Div., Baldwin Locomo-
tive Works, Burnham, Pa.
Roller bearings and boxes Timken Roller Bearing Co., Canton, Ohio
Truck clasp brakes; side bearings
Shock absorbers, truckHoudaille-Hershey Corp., Houde Engineering Div., Buffalo, N. Y.
Bolster locking center pins W. H. Miner, Inc., Chicago
Car couplersNational Malleable & Steel Castings Co.,
Draft gearWaugh Equipment Co., New York
Journal-box heat indicator
and alarmFenwal Inc., Ashland, Mass.
Air brakes
(Dummy ends)National Brake Co., New York
(Vestibule ends)Pullman-Standard Car Manufacturing Co.,
Aluminum sheets and shapesAluminum Co. of America, Pittsburgh, Pa.
Window sash
GlassLibbey-Owens-Ford Glass Co., Toledo, Ohio
Mississippi Glass Co., New York
Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Insulation, carGustin-Bacon Mfg. Co., Kansas City, Mo.
Diaphragms, inner; vestibule curtains Adams & Westlake Co., Elkhart, Ind.
Diaphrague (white) Heisel Same Buller C. New York
Diaphragms, outer (rubber)United States Rubber Co., New York
Vestibule step treads
Floor compositionTuco Products Corp., New York
End-door operators
Interior door locksPullman-Standard Car Manufacturing Co., Chicago
Yale & Towne Mfg. Co., Stamford, Conn.
Interior door checks
Heating equipmentVapor Heating Corp., Chicago
Electric power for all purposes
Overhead cooling and heating
unitTrane Co., La Crosse, Wis.
Air filtersFarr Co., Los Angeles, Calif.
BatteriesThomas A. Edison, Inc., West Orange, N. J.

Battery and brake train-line receptacles and connectors;
battery-charging receptaclesPyle-National Co., Chicago Exhaust blowers
Exhaust and circulating fans;
avle device regulators etc
(baggage-postal cars only)Safety Car Heating & Lighting Co., New York
Motor alternatorsEicor, Inc., Chicago
Safety Car Heating & Lighting Co., New York
Lighting fixturesLuminator, Inc., Chicago Safety Car Heating & Lighting Co., New York
Annunciators and chimes Edwards & Co., Norwalk, Conn.
Radio and public address eys.
temR.C.A. Victor Div., Radio Corp. of America, Camden, N. J.
Venetian blinds; luggage
locker interior doors
Window-shade fixtures and rollers; ash receptaclesAdams & Westlake Co., Elkhart, Ind.
Hand-luggage compartment
elevators
Chair-car seats
Vanity and loose chairs General Fireproofing Co., Youngstown, Ohio
MuralsKaufmann & Fabry, Chicago
Dry-ice refrigerator units Carbofrezer Co., San Francisco, Calif.
BarMandel Bros., Chicago
Table topsFormica Insulation Co., Cincinnati, Ohio
Range, steam table, steam
cooker, broiler, urns,
etcStearnes Co., Chicago
Cup & saucer dispensers in
dining carsLowerator Div., American Machine & Fdy. Co., New York Water coolersE. A. Lundy Co., New York
Water coolers L. A. Lundy Co., New York
Westinghouse Electric Corp., Pittsburgh, Pa.
Drinking-cup dispensersDixie Cup Co., Easton, Pa. U. S. Envelope Co., Paper Cup Div., Wor-
Folding lavatoriesAdams & Westlake Co., Elkhart, Ind.
HoppersDuner Co., Chicago
Crane Co., Chicago
Paper towel cabinetsScott Paper Co., Chester, Pa.
Water-tank and steam train-
line insulationJohns-Manville, New York
Fire extinguishersPyrene Mfg. Co., Newark, N. J.
Paint:
Exterior, principallyE. I. du Pont de Nemours & Co., Finishes Div., Wilmington, Del.
Interior, principallySherwin-Williams Co., Cleveland, Ohio

The forward end of this car includes rest rooms, adjoined by a luggage compartment with electric elevators for quick loading from outside the car. Card tables for eight persons, writing desk and magazine table are set off from the main parlor section which has seats for 22 persons with individually controlled as well as general fluorescent lighting. The observation circle at the rear of the car has settees and lounge chairs for 10, and reading tables.

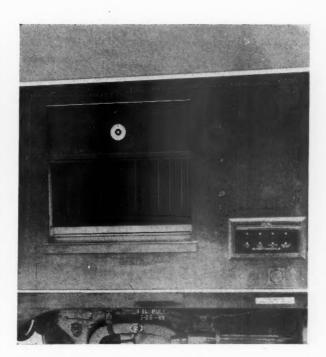
The entrance door of the parlor-observation car, as on all other passenger-carrying cars of the train, is electro-pneumatically operated. A warning light mounted on the rear of the car projects an oscillating beam of red light backward along the track (when actuated manually, or automatically due to application of brakes), as warning to a following train.

The "Shasta Daylight" cars are equipped with the fully automatic Vapor temperature control located in the end of each car. Automatic thermostat controls keep temperatures in the cars comfortable at all times, no matter what the temperature is outside. When heat is needed, steam is allowed into the radiators as required, and when cooling is needed the air-conditioning system automatically turns on, as the train moves, without manual adjustments.

Each chair car has five individually controlled heating zones, with separate thermostats which anticipate and modulate the heat in each zone. For example, the sunny side of the car needs less heat than the shady side, therefore the separate thermostats on each side automatically make adjustments to keep both comfortable.

When the temperature in the car drops a fraction of one degree below the comfortable thermostat setting, the thermostat electrically opens the heat valve allowing just a little heat into the aluminum-finned radiators until the temperature is restored. When temperatures in the cars rise above the comfortable setting, thermostats turn on the air-conditioning equipment.

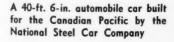
Each car is equipped for radio reception, conveniently placed speakers bringing entertainment to

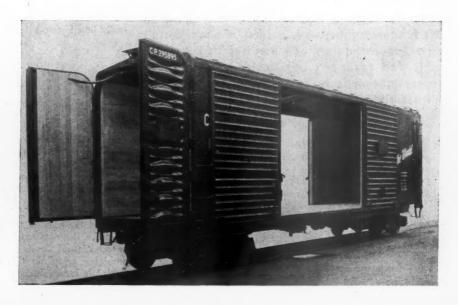


Luggage elevator with exterior door raised

passengers without blare or distortion. Multi-channel radio tuners, both for A.M. and F.M. reception, are located in several of the cars to offer a wide selection of programs over the route of the train. To facilitate train announcements, the radio system is linked with a public-address system which may be controlled from a majority of the chair cars, or from the conductor's desk.

Forty-eight-seat chair cars carry five speakers in the ceiling, while the 46-and 38-passenger cars have four. Four speakers also are located in the tavern car, parlor-observation car, and in the diner and coffee shop sections of the three-car articulated dining unit.





# **Transportation** Costs Discussed

#### -By the Director of Public Relations, American **Trucking Associations**

To the Editor of The New York Times:
Your editorial of June 5, "A Unified Transport Policy," contains one statement to which I should like to take exception. After indicating that "the railroads are heavily taxed" you say, "There is every reason to doubt that the trucking and long-line bus industries are paying their fair share of the cost of maintaining the right-of-way which they so freely enjoy."

Rather than there being "every reason to doubt" that trucks pay their way I think it more accurate to state that there is only one reason to believe that they do not pay their way-that reason being a steady and extensive barrage of railroad propaganda charging trucks with being subsidized.

Last year that "free ride" cost the nation's truck owners one billion and thirty-two million dollars in special motor vehicle taxes. In addition, like the railroads, they paid income taxes, property taxes and other non-vehicular levies in an unknown but obviously substantial amount.

The only complete and unbiased study ever given the question of public aids to transportation was that of the late Joseph B. Eastman, Federal Coordinator of Transportation. This study was made at the request of the railroads and financed by them. Over a period of seven years, with the aid of a large staff of experts, Mr. Eastman made an exhaustive analysis with respect to the allotment of highway

Railway Age reprints two "letters to the editor" which appeared recently in the New York Times. In one a spokesman of the organized truckers (annoyed because that newspaper doubts that intercity truckers pay their proper share of highway costs) undertakes to show that there would be no "subsidized transportation" question if the railroads would stop their "complaints" that the truckers eat highest on the hog. In the other letter the editor of Railway Age points out that the fundamental issue is not how the real costs of transportation are now assessed as between users and taxpayers but, instead, is whether transportation is to be all self-supporting or all socialized.

#### -By the Editor, Railway Age

TO THE EDITOR OF THE NEW YORK TIMES:

In the Times of July 1 you published a letter from Walter W. Belson, director of public relations of the American Trucking Associations, Inc., in which he seeks to refute an editorial in which you questioned whether long-haul trucks were paying adequately for the use of the highways.

Mr. Belson based his argument on the findings of the socalled "Eastman report" on public aids to transportation, which arrived at its conclusion that commercial highway users were paying adequately on the average (i. e., not necessarily in all states) by the wholly arbitrary and astonishing assumption that almost 60 per cent of highway costs should he shouldered by the general taxpayers rather than by the direct users of the highways. This burden was assigned to the general taxpayers on the assumption that highways confer "social benefits." That highways do confer such benefits no one questions-but so do railways. So, for that matter, does the service of retail stores, electric utilities and newspapers, but it has not yet occurred to anyone that 60 per cent of the cost of all these other economic services should be shifted from the patrons to the taxpayers.

The "Eastman report" is an obsolete document anyhow, based on conditions as they were fifteen years ago. There is another much more up-to-date report, equally nonpartisan, prepared from recent data by a firm of consulting engineers for the State of Illinois, which recommends that the fees charged the heaviest trucks be more than tripled in amount, to make them reasonably compensatory. Mr. Belson's characterization of the Eastman report as the "only complete and unbiased study" in this field thus falls somewhat short of

complete forthrightness.

costs to the different motor vehicles which use the roads and of the tax and other payments made by these vehicles.

His conclusion, as reflected in the official report of the coordinator, definitely refutes the charge of government subsidy to the trucking industry. Likewise, the federal coordinator absolved the private passenger car and the motor bus of charges of "subsidy." What he did find, in this area, was that the railroads have been the beneficiaries of the "subsidy" which they so vociferously ascribe to trucks and buses. The "Eastman Report" is a public record, available to all interested persons and is required reading on this subject.

#### **Motor Truck Service**

It seems to me that stockholders in our railroads should interest themselves in the monomania of railroad management on this question of "subsidy." The motor trucks are serving a shipper demand which the railroads physically will never be able to equal with their own equipment, since they are tied to the rails. They cannot offer so-called "store-door" service except with the assistance of the very trucks which they apparently regard so bitterly.

Railway Age recently presented a table, derived from testimony before an I.C.C. hearing by L. F. Orr of St. Louis, contrasting the rail revenue per hundredweight with the truck hauling cost per hundredweight of ten basic commodities. These commodities were: grain products, products of agriculture NOS, anthracite to washers, bituminous coal, coke, iron ore, other ores and concentrates, sand, gravel and stone, logs, butts, bolts, pulpwood, etc., and lumber, shingles, lath,

Based on Mr. Orr's tables, the average rail revenue from

these "rail bound" products was \$0.2044 per hundredweight, averaged. The truck cost (not charge) averaged \$0.3568. Rail revenue was therefore 57 per cent of truck cost, or put another way, rail rates could be increased on this traffic on average as much as 66 per cent over present levels and still be well under truck cost of hauling.

These items happen to be among those which constitute the bulk of railroad ton miles. Of course, Railway Age and other railroad spokesmen contend that our economy could not stand increased rates on these products. That is a matter of speculation.

Why aren't railroads entitled to cost of service and a fair return for their investment dollar?

#### Railroad Ton-Mileage

There is one curious facet of the railroad problem which has escaped the notice of most, if not all, of the commentators on transportation. Analysis of the railroad's own figures on distribution of commercial intercity freight discloses that the ton-mileage of the railroads in 1948 was greater than the ton-mileage of all forms of transportation in 1939 and in 1940. Moreover, the 647 billion ton-miles carried by the rails in 1948 was 91 per cent greater than they hauled in 1939 and 44 per cent more than they hauled back in 1926 when the trucking and pipeline industries were in their infancy.

Apparently, the railroad complaint is not lack of tonnage but rather their inability to preserve in perpetuity their relative share of the business against whatever new and improved forms of transport may arise.

Walter W. Belson Director Public Relations, American Trucking Associations, Inc.

#### The Problem Illustrated

It is not necessary to confuse the issue by injecting the ethical and metaphysical question of "fairness" into consideration of the economic problem which arises from the competition between transportation plant provided by the public purse (e. g., highways and waterways) and that supplied entirely from private investment sources (i. e., the railroads). The economic problem is not unduly complex and may be clearly exemplified by a concrete illustration: Citrus fruits move from Florida to New York either in a refrigerator car on rails or in a truck on the public highway. In the first case the shipper has to pay charges which include not only (1) the cost of moving the vehicle, but also (2) a proportionate share of the entire cost of the roadway over which the vehicle moves, and (3) ad valorem taxes on the cost of the roadway. In the second case the shipper has to pay cost (1), only a part of cost (2) and he does not pay cost (3) at all. This statement is irrefutable; and it inevitably produces rates for truck service which fail to reflect the full economic costs of the service, which railroad rates cannot fail to embrace, because the privately owned railroads have no means of diverting a portion of their costs away from their patrons and onto the tax rolls.

#### **An Identical Service**

Since, for long-haul commercial traffic, the publicly owned highway and the privately owned railway perform an identical service, there can be no reason whatever why the costs of transportation by one method should be saddled wholly on the users while taxpayers are required to share a large part of the cost when the other method is used.

The problem confronting the nation because of its persistence in putting deceptive price tags on its socialized transportation facilities (for that, in substance, is what highways for long-haul commerce are) is the practical one of

how the railroads are going to be continued as a privately financed industry, when they lose a large and growing traffic for reasons which are political rather than economic. It seems scarcely probable that the nation is going to abandon, in the long-run, for the long-haul transportation of freight a transportation tool by which five men can move 5,000 tons in favor of an alternative device which requires 100 times as many men to produce the same service, with the service requiring the larger number of men also calling for a larger outlay of capital. This is, nevertheless, the absurd trend now being fostered by our misleading price-tagging of the cost of publicly owned transport plant in its competition with that in private ownership.

#### **Correction Possible**

This anomaly is bound to be corrected. It can be corrected in terms of continued private ownership in the transportation industry by pricing the long-haul commercial use of the highways in accordance with business principles. The alternative is to allow the railroads to go broke and drift into public ownership, where they too will be able to provide transportation service in large degree at the taxpayers' expense.

The question of whether parallel methods of assessing costs should be adopted as between the use of highways and that of railways is really not an issue, because economic forces are working inexorably to that end. The real question lies in whether similar systems of cost allocation for the two forms of transportation will be achieved under conditions of private enterprise or under those of socialization—whether the entire transportation industry is to be restored to a wholly self-supporting basis or whether all of it is to become a chronic burden on the public treasury.

JAMES G. LYNE, Editor, Railway Age

## **GENERAL NEWS**

# House Group Modifies Radio-Rules Bill

Adopts I.C.C. proposals; rail presidents answer Patterson

Amendments designed to eliminate the proposed grant to the Interstate Commerce Commission of general regulatory authority over all railroad operating rules have been incorporated by a House interstate and foreign commerce subcommittee in a modified version of pending legislation which the subcommittee has decided to report favorably to its parent committee. The bill involved is H.R. 378, introduced by the parent committee's chairman, Representative Crosser, Democrat of Ohio; and the amendments adopted by the subcommittee, which is headed by Representative Beckworth, Democrat of Texas, are those suggested by the I.C.C. and called "clarifying" by Commissioner Splawn, chairman of the commission's legislative

The amendments were submitted to the House subcommittee after Mr. Splawn had first proposed them at a July 6 hearing before a Senate interstate and foreign commerce subcommittee which is considering an identical bill, S.238 (see Railway Age of July 9, page 135). As thus modified, the proposed legislation, which is designed to broaden the Interstate Commerce Act's section 25 where provisions of the so-called Signal Inspection Act of 1937 are now included, would still give the commission authority to require the installation of radio and other train-communication systems; but its authority to prescribe train-operating rules would be confined to rules "in connection with" such installations and installations of signaling devices over which the commission already has authority under the present law. The House subcommittee also made further amendments, including one providing that interested parties shall be afforded "opportunity for hearing" before the commission issues an order under the section. and others designed to safeguard the

present jurisdiction of the Federal Communications Commission over railroad radio installations. pro Pre

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That the I. C. C.'s "clarifying" amendments were considered emasculating by labor organizations supporting H.R.378 as originally introduced was indicated by the report of the presentations made by Commissioners Splawn and Johnson before the Senate subcommittee which appeared in the July 9 issue of "Labor," organ of 15 railroad unions. Commissioner Johnson endorsed the "clarifying" amendments after they were proposed by Mr. Splawn, but Commissioner Patterson who also appeared at the hearing made no reference to them.

#### "Safety Measure Stabbed," Says "Labor"

"Safety Measure of I.C.C. Stabbed by Two Members," said "Labor's" headline, its subhead adding: "Shocking performance staged by Splawn and Johnson before Senate group." The latter statement was repeated in the account of the hearing which went on to point out that the original version of the legislation had been recommended by the commission in its annual reports of recent years. It was then noted that Commissioner Patterson "fully endorsed" these recommendations in his presentation as he had in an earlier appearance before the House subcommittee. "Suddenly," as "Labor" put it, "Senator Reed of Kansas, who is regarded as friendly to the railroad interests, induced" Commissioner Splawn to take the stand. The article proceeded to quote "spokesmen for the rail unions who have devoted years of study to the matter" as having said that the "clarifying" amendments would "cut the guts out of the proposed legislation."

"The carriers," the article also charged, "have put the heat on members of the I.C.C. during the last week, urging them to abandon recommendations which they supported for so many years. Only Splawn and Johnson have succumbed. Patterson is standing by his guns. In their effort to butcher the legislation the [railroad] lobby has brought in a number of railroad presidents and they began 'operating' on members of the I.C.C. and such senators as they could approach."

As reported in last week's Railway Age, Commissioner Splawn told the Senate subcommittee that he was speaking for the commission, as chairman of its legislative committee, in offering the amendments. The commission, he said, had agreed upon them at a July 5 conference, held at his suggestion for fur-



General of the Armies Dwight D. Eisenhower was one of the participants in ceremonies which started the Pennsylvania's newly re-equipped streamlined train, "The General," on its first 16-hr. run from New York to Chicago; his "opposite number" in a similar send-off for the eastbound train at Chicago was Lieutenant General Stephen J. Chamberlain, commanding the Fifth Service Command. "The General's" new schedule, 25 min. faster than its former schedule, matches the running time of the "Broadway Limited," which it will precede by one hour in each direction. New all-Pullman equipment, costing approximately \$3 1/3 million, includes a wide variety of Pullman accommodations, from section space through de luxe master bedrooms with private shower baths; mid-train lounge; rear-end observation lounge with solarium, and 68-seat, twin-unit dining car

ther consideration of its position on the proposed legislation.

#### **Presidents Reply to Patterson**

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Meanwhile, Presidents F. G. Gurley of the Atchison, Topeka & Santa Fe, J. B. Hill of the Louisville & Nashville, and William White of the Delaware, Lackawanna & Western, who appeared before the Senate and House subcommittees in opposition to the proposed legislation, have sent to Chairman Beckworth a letter in reply to testimony made before the House subcommittee by Commissioner Patterson. The letter was written because the three railroad presidents found "particularly disturbing" statements by the commissioner "to the general effect that railroad management does not make a serious effort to enforce obedience by its employees to its operating rules and even encourages violations of such rules." (See Railway Age of July 2, page 46). They asked Chairman Beckworth to make the letter a part of the record of his subcommittee's hearings; and J. Carter Fort, vice-president and general counsel of the Association of American Railroads, submitted a copy for the Senate subcommittee's record to Senator Myers, Democrat of Pennsylvania, chairman of that group.

With respect to Commissioner Patterson's charge, as summarized above, Messrs. Gurley, Hill and White said generally that they had "no hesitancy in saying that the railroads do not disregard safety by encouraging or acquiescing in violations of operating rules by employees." Such a practice would be

"unthinkable," they added.
"There is," the letter continued, "no feature of railroad operation which receives more serious, painstaking and conscientious consideration than the formulation and enforcement of operating rules. These rules have been developed and constantly improved since the early days of railroading by the best qualified men in the industry. . . . Safety is the first consideration. Railroad management takes every means available to it to enforce observance of the operating rules. Employees are schooled in the rules and are examined upon them. Supervisory officers are constantly on the alert to discover possible infractions and such infractions as are discovered bring prompt disciplinary measures including dismissal from service in appropriate cases.'

#### Adjustment Board Interferes with Discipline

The railroad presidents conceded that it was not possible to achieve "a perfect record of compliance with the rules at all times by all employees." In their efforts to obtain the "highest possible de-gree of compliance," they said, the railroads are confronted with a "difficulty" in the National Railroad Adjustment Board set-up. That board, the letter went on to explain, "undertakes to review many cases involving rules infractions, and substitute its judgment for that of management in matters of discipline." Here also, Messrs. Gurley, Hill and

White emphasized that the proposed legislation "provides no penalty against an employee who fails to observe operating rules and for that reason could have no effect in bringing about a stricter compliance with the rules."

Turning next to another of Commissioner Patterson's statements "to the general effect that the railroads have usually waited to put safety measures in effect until there was legislation requiring them to do so," the railroad presidents cited what they called the "extraordinary and gratifying improvements in the safety of railroad operation," which has been continuing for a "great many" years. "This," they added, "has been due almost wholly to the voluntary action of the railroads and not to legislative compulsion. For the most part, the improvement in railroad safety has been the result of voluntary expenditures by the railroads for the general betterment and improvement of their facilities and equipment. . . ."

Even if Commissioner Patterson's charge is taken only as relating to the installation of safety devices, it is "much too broad," Messrs. Gurley, Hill and White insisted. Taking automatic block signals as their first example, they pointed out that 93,757 miles of track were equipped with such signals as of January 1, 1937-"before any legal requirement was involved." The Signal Inspection Act giving the commission authority to require such installations was not enacted until August, 1937. The letter put at 105,334 the mileage of track equipped with automatic block signals as of January 1, 1948, and said that "only a small part" of the increase since 1937 was the result of commission orders "or any other legal requirement."

Other like examples included the letter's reference to the extension of centralized traffic control systems until they covered 8,847 miles of track as of Janu-

(Continued on page 76)

## I. C. C. Opens Eastern Fare Increase Hearings

#### Increased costs require 121/2% boost, rail witnesses testify

Nine favoring railroad witnesses, and four opponents, were scheduled to appear Interstate Commerce Commissioner John L. Rogers at Brooklyn, N. Y., on July 13 and 14 in hearings on I. C. C. Docket No. 30256-the petition of "substantially all" of the Class I railroads in the Eastern district and Pocahontas region for a basic passenger-fare increase of 121/2 per cent.

The railroads' proposal calls for increasing both one-way and round-trip fares so that, as increased, one-way fares would approximate 3.375 cents per mile in coaches and 4.5 cents per mile in parlor and sleeping cars; for increasing

interline fares between stations on the lines of petitioning railroads and stations on connecting lines to the extent necessary to reflect the requested increases; for increasing excess baggage charges, and for making other minor revisions in present fare scales. The proposal does not apply to commutation fares, which were not an issue in the hearings.

Railroad witnesses repeatedly emphasized the cost increases which the industry has been required to assume in recent years, the losses incurred in passenger service, and the fact that the proposed increase is essential, not to make passenger traffic wholly self-supporting, but simply to enable it to bear a fairer share than it now does of over-all railroad costs. Sitting with Commissioner Rogers in consideration of these and other arguments were Edgar H. Hunter, chairman of the Public Service Commission of New Hampshire, and Harold L. Mason, member of the Public Utilities Commission of Ohio.

#### Parmelee Opens Railroad Case

Lead-off witness for the railroads was Dr. Julius H. Parmelee, vice-president of the Association of American Railroads, and director of its Bureau of Railway Economics. He was followed, in order, at the first session of the hearing, by Fred Carpi, vice-president-traffic, of the Pennsylvania; Claude W. Getty, assistant passenger traffic manager of the same company; J. D. Haggerty, assistant comptroller, New York Central; Harry G. Gillis, general passenger agent, N. Y. C., and Vanderbilt Armold, chairman of the Trunk Line-Central Passenger Committee of the Traffic Executive Association-Eastern Railroads. Other witnesses slated for later appearances included Martin J. Alger, vice-president-traffic, of the N. Y. C., E. D. Osterhout, passenger traffic manager, Reading, and H. F. McCarthy, vice-president-traffic, of the New York, New Haven & Hartford.

Direct examination of railroad witnesses at the opening sessions was handled by E. A. Kaier, general attorney, P. R. R., and Kenneth F. Stone, general counsel, N. Y. C. The only cross-examination was by F. B. McElroy, transportation rate expert of the Illinois Commerce Commission, and Emanuel Schwartz, town attorney of Pelham, N. Y.

Opposition witnesses who filed their intention to appear included Mr. Mc-Elroy; Marshall J. Mantler, executive director, and Andrew P. Federline, attorney, for the Bureau of Salesmen's National Association; and Dr. William Leonard and George Harbaugh, representing the Jersey Shore Protective Committee and the Inter-Municipal Group for Better Rail Service, an association of 48 New Jersey communities which has been actively opposing increases in commutation fares on lines serving that state. A separate statement opposing the increase, and urging the commission to investigate the basic level of passenger fares and to advocate repeal of the 15 per cent wartime excise tax, was distributed by John



New "lookout lounge" observation cars have been added to the New York Central's "Southwestern Limiteds," completing deliveries of postwar passenger equipment for the daily St. Louis, Mo.-New York trains. The new cars feature an elevated observation section with extra large windows. In addition to the lounge and observation sections, which seat 25 persons, the cars contain five double bedrooms, four of which can be converted to two large drawing rooms with seating space for seven persons and berths for four. All cars on the trains are of all-stainless steel construction and were built by the Budd Company

A. Hastings, of Great Neck, N. Y., former New York state senator.

Dr. Parmelee-who, like other railroad witnesses, supported his testimony with detailed exhibits-emphasized the fact that "sharp and continuing increases in railroad operating costs have seriously depleted the Eastern railroads' net working capital." In the 40-month period from December 31, 1945, to April 30, 1949, he said, there was a reduction of 82 per cent in working capital; the amount on hand on April 30 was barely enough to cover payrolls for a two-week period. "If there is no change in rates and fares or prices of materials," he added, "the annual rate of return earned on net investment by the Eastern railroads will be only about 2.02 per cent after the 40-hr. week goes into effect for non-operating employees on September 1."

He pointed out that, while Eastern district operating revenues in 1948 were 38 per cent greater than in 1929, the pre-war peak, and 107.1 per cent over 1940, operating expenses in 1948 were 51.4 per cent larger than in 1929 and 130.1 per cent above 1940. Since 1940, he said, the increase in Eastern railroad passenger revenues per passenger-mile, excluding commutation traffic, has been relatively less than half as great as the increase in wholesale prices, less than two-thirds as great as the increase in cost of living, and less than one-third as large as the increase in per capita personal income.

Mr. Carpi stated that his company had lost nearly \$45 million on passenger serv-

ice in 1948, and would realize only \$8,900,000 from the new fares—"far from enough to offset the losses growing out of sharply increased wages and material costs." Like other witnesses who followed him, he called attention to the fact that the railroads have for a long time been trying to secure increases in rates on mail and other passenger-train head-end traffic; to increases in wages and material prices, and to the "lag and unfavorable disparity between the carriers' increased cost burden and increased rate and fare levels."

#### High Volume at Low Fares No Answer

On direct examination by Mr. Kaier, Mr. Carpi said he had tested "under the most favorable conditions imaginable" the theory that passenger service might be put on a profitable basis by lower fares and increased volume. He recalled that in 1943 the Pennsylvania's passenger service produced a net railway operating income of \$48,179,849, when new automobiles were unavailable, gasoline was rationed, and tremendous troop and furlough movements and other unusual travel incident to war-crowded trains.

"No one would suggest that a volume anywhere near as great as this could be achieved," he said, "under the normal conditions which now prevail. But restating the cost of providing that service on the basis of today's wage rates, tax rates and material prices, we find that the \$48 million net railway operating income is turned into a deficit of \$13,524,993. This is conclusive demonstra-

tion of the fact that low rates and great volume cannot overcome the cost increases that have been incurred in postwar years."

Following Mr. Carpi, Mr. Getty told what his company was doing to provide new and improved postwar passenger equipment, and faster scheduling of trains, "as a result of which the public today receives for its transportation dol. lar far greater value than ever before in travel comfort and convenience." He also declared that the proposed increase in basic fares will raise the average fare paid by passengers on the Pennsylvania, exclusive of commuters, from 3.14 cents per mile to 3.53 cents per mile. "That," he said, "will still be slightly less than the average fare of 3.55 cents per mile paid in the 1920's, when train comforts and services were a far cry from those enjoyed now, and when railroad operating costs were substantially less than at present." As did other witnesses, he called attention to railroad efforts to discontinue unprofitable trains, and to the difficulties frequently encountered in doing so.

Mr. Haggerty's testimony was generally similar to Mr. Getty's, except that it related to the New York Central, and, in some particulars, to other Eastern roads; while Mr. Armold presented a series of exhibits to show how the proposed increased fares would be applied for various distances and between different destinations.

Mr. Alger's statement dealt largely with passenger traffic on the New York Central, and with the efforts that company is making to cut passenger operating costs and improve service. He granted that increasing the basic fares "may possibly result in a slight diversion of traffic to other forms of transportation, but the diversion, if any, will not be to any appreciable extent. . . . There is a solid core of regular and dependable passenger traffic for the railroads . . ." which, he said, "I believe we will be able to retain."

On the day preceding the general hearing, officers of the Long Island testified in support of that company's separate application for a 16 2/3 per cent increase in fares on that company's proportion of the interstate passenger traffic in which it participates.

#### Diesel Fireman Board Asks More Time to Submit Report

President Truman has been asked to extend to September 19 the time by which he will receive the report of the three-man "fact-finding" board holding hearings in New York on the demand of the Brotherhood of Locomotive Firemen & Enginemen for an extra fireman on Diesel-electric locomotives. The original date for submitting the report was August 15. Grady Lewis, a member of the Presidential board, said the date the board is "shooting for" by which presentation of evidence would be complete is August 19. If this aim is achieved, Mr.

Lewis said, final briefs will be presented by September 1.

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The board on July 7 denied a formal request by C. L. Mulholland, attorney for the Railway Employees' Department of the American Federation of Labor, for permission to intervene in the proceedings and present testimony relative to his organization's interest in the case. Mr. Mulholland explained his request by saying: "I think in the engineers' case it was clearly brought out that the Railway Employees' Department represents, for collective bargaining purposes, the men now known as Diesel maintainers. We feel, therefore, that we have a very definite interest in the outcome of this case." Harold Heiss, counsel for the B. of L. F. & E., objected to Mr. Mulholland's request to intervene. Howard Neitzert, counsel in the case for the railroads, said he had no objection.

Although the board denied the request, its chairman, George W. Taylor, told Mr. Mulholland it "reserves the right to itself to call upon you and your organization for information which . . . may become necessary for a complete investigation of the issues."

#### Union's Second Witness

Horace A. Bacus, of Cleveland, Ohio, followed David B. Robertson, president of the B. of L.F.&E., as the union's second witness. Mr. Bacus, who described himself as a "transportation economist," was a statistical analyst with the National Recovery Administration in 1932. Just before the recent war he was research director for the Brotherhood of Railway & Steamship Clerks. After four years' service with the armed forces during the war he accepted, in October, 1947, an assignment with the B. of L.F.&E. to prepare material for the present case.

His lengthy testimony consisted mainly of a summation of the history of straight electric locomotive operations on United States railroads from 1895 to the present. Such a presentation was necessary, he said, because "the only reason in the world that these men on these electric locomotives have this [wage] differential today is that complete facts have never been before any board . . . and I certainly think it is time that some public board gets this complete picture."

Jesse Clark, president of the Brotherhood of Railroad Signalmen of America, and third witness for the B. of L.F.&E., said he was appearing "primarily to talk about the type of work performed and the facilities installed and maintained by the employees represented by my organization on the nation's carriers." Mr. Clark cited a number of instances of alleged failure of signal and safety equipment which had almost, or actually, led to accidents on various railroads throughout the country. He added that an additional observer on locomotives would tend to reduce the possibility of accident in cases of equipment failure. For instance, the witness continued, "an extra pair of eyes" would help in situations where

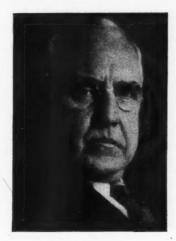
faulty mechanisms gave false "proceed" signals to enginemen.

At this point Mr. Lewis interrupted the witness to say that an incorrect signal is still incorrect whether viewed by one set of eyes or 20 sets and that he could not see how the determination of a correct reaction to a false "proceed" signal depended upon the number of observers.

Additional General News appears on pages 76 through 81.

## SUPPLY TRADE

Frank C. Hasse, whose retirement as vice-president, mechanical department, of the Oxweld Railroad Service Company, a



Frank C. Hasse

unit of Union Carbide & Carbon Corp., at Chicago, was reported in *Railway Age* of July 2, entered railroad service in



Lem Adams

1904 with the Atchison, Topeka & Santa Fe. He also served successively as fireman with the Chicago, Burlington & Quincy, and as roundhouse foreman and general boiler foreman with the Illinois Central prior to joining the Oxweld Railroad Service Company in 1913 as an instructor. In 1916 he was assigned to the Chicago main office, leaving that post early in World War I to enter the United States Army as a captain. He later held the positions of superintendent of construction at Camp Normyle, San Antonio, Tex., and commanding officer of that camp. Shortly after his return to Ox-



Clarence R. Strutz

weld in 1919, Mr. Hasse was appointed superintendent of construction and maintenance, and in 1927 became general manager, subsequently advancing to vicepresident.

Also reported in Railway Age of July 2 were changes resulting from Mr. Hasse's retirement, involving Lem Adams, who has assumed general supervision of the mechanical and construction departments in addition to his present duties; Clarence R. Strutz, who has been pro-



R. W. Torbert

moted to manager of the mechanical department; and R. W. Torbert, who has been appointed manager, maintenance of way and construction departments.

Mr. Adams graduated from Texas Agriculture and Mechanical College with a degree in civil engineering in 1908, and started his railroad career in June, 1909,

in the engineering department of the Union Pacific. After holding various positions in the maintenance-of-way department, he was appointed roadway assistant, staff of president, system, with headquarters at Omaha, Neb., in 1920. In 1931 he became engineer, maintenance of way, being advanced to chief engineer in January, 1933. The following August he joined the Oxweld Railroad Service Company as chief engineer, and became vice-president in February, 1939.

Mr. Strutz received a degree in mechanical engineering from Valparaiso University in 1933, and first became associated with Union Carbide & Carbon in 1934, when he was employed at the corporation's exhibit at the Chicago World's Fair. He subsequently entered the mechanical department of Oxweld and continued to serve with the company until 1942, at which time he volunteered for service in the United States Navy, being assigned to various shipyards, including San Diego, Cal., San Francisco and Pearl Harbor. At the time of his discharge in 1945, Mr. Strutz held the rank of lieutenant, and since then has been closely associated with Mr. Hasse.

Mr. Torbert, who is a graduate in civil engineering of the University of Delaware, entered railroad service in the engineering department of the Reading at Harrisburg, Pa. In 1926 he was appointed assistant supervisor, maintenance of way, and in 1934 was advanced to supervisor, maintenance of way. He subsequently held the latter position at Philad Iphia, Pa., and West Trenton, N. J., until December, 1941, when he joined Oxweld as assistant chief engineer. In 1943 Mr. Torbert was promoted to assistant to vice-president in which capacity he was serving at the time of his recent appointment.

The Joy Manufacturing Company, Oliver Building, Pittsburgh, Pa., has announced acquisition of all capital stock of the Mines Equipment Company. Joy will continue to manufacture the complete line of Mines' products, supplementing its own stationary and portable air compressors, pneumatic drills and hoists, and "Axivane" fans and blowers.

Turco Products, Inc., has announced the appointment of F. E. Wurnes as director of sales promotion; with headquarters at Los Angeles, Cal. Mr. Warnes formerly was sales supervisor for the Pacific Northwest.

C. J. Beneke has been appointed product manager for the wire, rod, bar, structurals and cable division of the Reynolds Metals Company, at Louisville, Ky.

The Electrical Industrial Truck Association has moved its executive offices from 29-28 41st avenue, Long Island City 1, N. Y., to 3701 North Broad street, Philadelphia 40, Pa.

George S. Grassmyer has been appointed manager of inspection of the Eddystone division of the Baldwin Loco-

motive Works. Mr. Grassmyer formerly was a member of the field service and inspection department.

Frank E. Cheshire, formerly vice-president of the Chicago, Indianapolis & Louisville and, more recently, transportation engineer with the General American Transportation Corporation, Chicago, has joined the International Steel Company, Evansville, Ind., as manager of sales for the firm's recently created railway division.

Erle K. Theimer, assistant traffic manager of the Crane Company, Chicago, has been advanced to traffic manager there. Mr. Theimer was with the Chesapeake & Ohio for 22 years, and was serving as commercial agent at Chicago when he joined Crane in 1947.

The L. J. Wing Manufacturing Company has announced the appointments of Albert D. Becker as representative for the eastern section of New York state, Vermont and Berkshire county in Massachusetts, with headquarters at 434 Clinton avenue, Albany, N. Y., and Fred McMeans as representative for British Columbia, with headquarters at 451 West Broadway, Vancouver, B. C.

M. L. Gray, vice-president and export manager of the Union Switch & Signal Co., has retired after nearly 44 years of service. Mr. Gray was graduated from Pennsylvania State College. He joined Union Switch & Signal on January 24, 1905, as an inspector and later was transferred to the sales department. In 1916 he was appointed assistant to the general sales manager and later assistant to the vicepresident and general sales manager. Mr. Gray was elected acting vice-president in 1929, which position he held until April, 1936, when he was elected vice-president. He was elected vice-president and export manager on April 17, 1945, the position he held at the time of his recent retirement. On January 30, 1948, he was elected a director of the company and will continue in this capacity.

James Wright, assistant vice-president of the Union Switch & Signal Co., has been appointed assistant to the president, with headquarters at Swissvale, Pa.

#### OBITUARY

Harold C. Bullard, plant engineer of the Bullard Company, died on June 28, at his home in Fairfield, Conn. He was 69 years old.

Chorles H. Morse, III, vice-president in charge of research, patents, traffic, the Western Pump division, manufacturing plants and production of Fairbanks, Morse & Co., with headquarters at Chicago, was killed on July 9 when a company plane in which he was making a business flight to St. Louis, Mo., crashed and burned near Roanoke, Ill.

Mr. Morse, who was also president of Inland Utilities Company (a subsidiary of Fairbanks, Morse), was the son of Colonel Robert H. Morse, president of Fairbanks, Morse. He began his career with the firm as a factory worker in the Three Rivers, Mich., plant 31 years ago and worked his way through various departments of the plant, later being promoted to sales engineer, with headquart-



Charles H. Morse, III

ers at St. Paul, Minn. He subsequently served in a similar capacity at Memphis, Tenn., and Kansas City, Mo., until 1935, when he was elected president of Inland Utilities. Mr. Morse became also vice-president in charge of research, patents, traffic and the Western Pump division of the parent company in October, 1945, and was appointed vice-president in charge of manufacturing plants and production in June, 1946, all of which positions he held at the time of his death.

## **OVERSEAS**

Colombia .- The National Railways of Colombia are interested in constructing facilities for preservative treatment of railroad ties and, also, want information on modern train-dispatching methods and equipment, according to Foreign Commerce Weekly. Improvements are con-templated in the train-dispatching system in use on the Bogota-Ibague and Cali-Buenaventura lines, about 300 km. and 200 km. long, respectively. Although it is desired to limit expenditures for the new system on these two lines to \$20,000, the American embassy at Bogota has been informed that a larger allocation would be considered. Firms interested in investigating these opportunities may communicate with the Consejo Administrativo de los Ferrocarriles Nacionales, Bogota, either directly or through the American embassy. In any case, the embassy would appreciate receiving copies of correspondence on these matters.

# **EQUIPMENT AND SUPPLIES**

#### FREIGHT CARS

#### 9,121 Freight Cars Delivered in June

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Freight-train cars for domestic use delivered during June totaled 9,121, including 3,316 delivered by railroad shops, compared with May deliveries of 9,525 cars, which included 2,646 delivered by railroad shops, the American Railway Car Institute has announced. June deliveries included 1,162 box cars, 2,015 gondola cars, 4,166 hopper cars, 864 refrigerator cars, 414 tank cars and 500 cars of other types.

Freight-train cars ordered last month for domestic use amounted to 153, compared with 589 cars ordered in May. In both months all orders were placed with contract builders. The backlog of orders on July 1, the institute said, was 42,813 cars, including 20,534 on order from railroad shops, compared with 52,281 on order on June 1 and 122,181 on order on July 1, 1948.

#### LOCOMOTIVES

# Uruguay and Pakistan To Purchase Locomotives

The director general of the Uruguayan State Railways has announced that offers to supply locomotives for those lines will be considered, according to Foreign Commerce Weekly. Also, according to the same publication, the Railway division of the Pakistan Ministry of Communications wishes to receive quotations covering the supply of 25-ton, 5 ft.-6 in. gage, Diesel-electric switching locomotives developing 150 hp. at 1,000 r.p.m.

It is understood that Uruguay will purchase three locomotives in the near future, and that an unspecified number probably will be acquired later. The first three are to be steam locomotives, new or used, developing 1,200 to 1,300 hp., with standard gage and a maximum axle load of 15½ tons. For subsequent purchases, new Diesel or Diesel-electric locomotives probably will be specified. Further information may be obtained from the Director General, Uruguayan State Railways, Montevideo, Uruguay, and the Director General, Department of Supply and Development, Frere road, Karachi, Pakistan.

The Erie has ordered seven Diesel-electric locomotive units from the Baldwin Locomotive Works. Included in the order are one 1,000-hp. switching and six 1,500-hp. road-switching units.

The Union (Pittsburgh, Pa.) has ordered five 1,500-hp. heavy duty Diesel-electric road-switching locomotive units from the Baldwin Locomotive Works.

#### SIGNALING

The Union Pacific will spend \$1,568,820 for installation of 142 mi. of automatic cab signal circuits and replacement with color-light signals of the remaining semaphore signals between Summit, Neb. (Omaha), and Grand Island. With the completion of this work, automatic cab signals will be in use on 755 mi. of the 812 mi. of double-track main line between Summit and Green River, Wyo. The excluded 57 mi. of line, between Cheyenne, Wyo., and Laramie, includes a 16-mi. section of divergent main tracks just east of Laramie.

The Ontario Northland has ordered materials from the General Railway Signal Company for installation of absolute permissive block signaling on 26 mi. of single track between Swastika, Ont., and Englehart. This order includes type-SA searchlight signals, type-K relays and welded steel instrument cases.

#### **ABANDONMENTS**

Norfolk & Western.—Division 4 of the Interstate Commerce Commission has denied this road's application for authority to abandon its 4.89-mi. Honaker branch extending from the connection with its main line at Honaker, Va., to the end of the branch at Blackford. The report said that the proposed abandonment would result in serious inconvenience to the shippers being served by the branch and that the N.&W. has not presented evidence sufficient to prove that continued operation of the branch would impose an undue burden upon it or upon interstate commerce.

Applications have been filed with the Interstate Commerce Commission by:

Georgia & Florida.—To abandon approximately 97 mi. of its line, including its 17.9-mi. Broxton branch, from Broxton Junction, Ga., to Relee; its Madison, Fla., section, from Madison, Fla., to a point 3.5 mi. south of Valdosta, Ga., 26.8 mi.; the 41.8-mi. line of its subsidiary, the Statesboro Northern, from Stevens Crossing, Ga., to Statesboro; 2.4 mi. of terminal facilities in Statesboro owned by the Statesboro Terminal and operated under lease, and the 8-mi. Millen branch between Garfield, Ga., and Summit-Graymont. The abandonment sought is part of a plan "to save and improve, with the hope of ultimate re-organization," the most important portions of the main line as recommended by William Wyer & Co., railroad consultants, who were retained to make a survey of the G.&F. The G.&F. has been in receivership since 1929 and the application was filed pursuant to a June 8 order of the U.S. District Court of Georgia as a result of the Wyer report. This report also recommended that proceeds from sale of the above lines be applied towards acquisition of nine Diesel-electric locomotives and 150 freight

cars and the equipping of present shops

to service the new equipment.

Nacogdoches & Southeastern.—To abandon a 28-mi. line from a point near Oil Springs, Tex., to Calgary. The application said the Frost Lumber Industries, owners of the line, will discontinue logging operations August 1 and take up the tracks soon thereafter.

Division 4 of the I.C.C. has authorized:
Lehigh Valley.—To abandon its 0.2-mi.
Humboldt branch, its 0.1-mi. Crystal
Ridge branch, and an 0.67-mi. portion of
its Cranberry Colliery branch. The lines
involved are all located in Luzerne
County, Pa. The commission's report said
that mines formerly served by the lines
have been worked out.

have been worked out.

Natchez, Urania & Ruston.—To abandon a 3.9-mi. portion of its line from Olla, La, to a point 1.75 mi. north of a junction with the Missouri Pacific at Urania. The commission's report said the traffic available in the area has decreased in recent years because truck service is provided by lumber dealers and common carriers.

carriers.

New York, Ontario & Western.—To abandon operation of the Ontario, Carbondale & Scranton's 2-mi. Northwest branch in Lackawanna County, Pa. Abandonment of the line by the O.C.&S. was authorized in the same commission report which noted that the line serves only an anthracite coal breaker which is not dependent upon rail service as the run-of-mine coal moves by truck to the breaker over printe roads.

## FINANCIAL

#### Approves "Q" Plan for New Kansas City-St. Louis Route

Division 4 of the Interstate Commerce Commission has approved the acquisition by the Chicago, Burlington & Quincy of trackage rights under which it will use about 158 mi. of Gulf, Mobile & Ohio lines between Rock Creek Junction, Mo., and Francis and thus establish an improved freight route between Kansas City and St. Louis. The lines involved are the 156-mi. line of the Kansas City, St. Louis & Chicago between Rock Creek Junction and Mexico, Mo., and the 2-mi. line of the Louisiana & Missouri River between Mexico and Francis, both of which were acquired by the G.M. & O. in connection with its acquisition of the Alton.

The same lines were also involved in a previous application, denied by the commission, wherein the Burlington sought approval of arrangements similar to those it has now obtained, and the Atchison, Topeka & Santa Fe sought to obtain a direct Kansas City-St. Louis line (see Railway Age of July 24, 1948, page 101). The Burlington's present plan also contemplates acquisition of rights over 0.81 mi. of tracks in the Kansas City terminal area where the K.C.St.L. & C. line connects with the Kansas City Terminal

Consummation of the plan will give

the Burlington a 273-mi. freight route between Kansas City and St. Louis, 65 mi. shorter than its present route via Hannibal, Mo., and Cameron Junction. The new route will "compare favorably" with competing routes of the Missouri Pacific and Wabash, the commission said. There was no railroad opposition, the Burlington having stipulated that it would not object to a condition requiring the continuance of existing through routes and joint rates via St. Louis and Kansas City. The commission imposed such a condition, and another for the protection of interested employees who are not covered by the so-called Washington Job Protection Agreement.

Evidence reviewed by the commission indicated that the Burlington expects the new route to attract enough additional business to increase its gross revenues by approximately \$2,646,000 in an "average" year. The additional net income on that basis would be about \$736,600. The latter, however, would depend on final arrangements with train-service employees; and such arrangements might reduce it by about \$31,000, the commis-

sion said.

Rental provisions of the G.M. & O .-Burlington agreement stipulate that the latter will pay 50 per cent of the interest on K.C.St.L. & C. bonds, 50 per cent of the ad valorem and franchise taxes applicable to the Rock Creek Junction-Francis line, and 2 per cent annually on amounts spent by the G.M. & O. for jointly-used additions and betterments. Maintenance and operating expenses of the Rock Creek Junction-Mexico segment will be divided on the basis of car-mile use of the line, but the proportion payable by the Burlington is not to be less than 30 per cent. For use of the 2-mi. line between Mexico and Francis and the terminal tracks at Kansas City, the Burlington will pay per train-mile amount equal to the average amount per train-mile paid . . . during the same month for use of the Mexico-Rock Creek Junction line." The Burlington estimated that its proportion of use of the lines in an "average" year will amount to 33.87 per cent, and that its payments therefor will total \$374,195.

A table in the commission's report summarized estimates of record in the case which indicated that \$3,969,534 will be spent to rehabilitate the Mexico-Rock Creek Junction line. In addition to improvements already made, at a cost of \$227,548, the estimate includes \$962,432 for signaling facilities and centralized traffic control, \$2,679,554 for rail, and \$100,000 for "miscellaneous" improvements.

Alleghany Corporation.—Security Transactions.—During June, this company purchased the following railroad securities: 45,538 shares of Kansas City Southern preferred, 1,600 shares of Chicago. Rock Island & Pacific common and 500 shares of Seaboard Air Line preferred. It also sold during the month 50,000 shares of Rock Island preferred.

Atchison, Topeka & Santa Fe.—Purchase.

—This road has applied to the Interstate Commerce Commission for authority to purchase approximately 1.2 mi. of the Colorado's main line right-of-way in Pueblo, Colo., and approximately 38 acres of land and 0.76 mi. of switching tracks from the Pueblo Terminal. For the property, the S.F. would pay the Colorado \$57,000 and the Pueblo Terminal \$51,150 and would make any necessary relocations of the former's lines. The application said such purchases would enable the S.F. to enlarge and relocate its Pueblo yard.

Chicago, Rock Island & Pacific.—Acquisition.-Examiner Paul C. Albus has recommended in a proposed report that Division 4 of the Interstate Commerce Commission conditionally authorize this road to acquire control, through stock ownership, of the Pullman, an industrial switching line in the Chicago area. Pullman's capital stock consists of 5,000 shares of common, par value \$100 per share; and the Rock Island proposes to purchase it all for \$1,175,000 from the Pullman Finance & Properties Co., a subsidiary of Pullman, Inc. It would operate the road initially under a 5-year lease, the ultimate plan being to integrate the property into the Rock Island system. The purchase agreement also contemplates that the Rock Island's subsidiary, Rock Island Improvement Company, would purchase from Pullman Finance, for \$1,025,000, about 355 acres of industrial property located along Pullman's line.

Opposing interveners in the case include the Illinois Central and the Chicago Belt. The I.C.'s position, as summarized by the examiner, is that "it would not be in the public interest to permit the Rock Island to invade the Lake Calumet district by the expediency of buying Pullman." The Belt contends that it should be permitted to acquire control of Pullman because the latter's "independent status" would thus be "best maintained." If the application is granted, Belt asks that conditions be imposed to "insure continuation of the present, free, open and impartial operation of Pullman." Among the conditions which Examiner Albus would have the commission attach to its favorable action on the application are requirements along the foregoing line, although they are the conditions suggested by the Chesapeake & Ohio, another intervener, which does not oppose the application but wants to insure preservation of "the neutrality heretofore exercised by Pullman in connection with the maintenance of through routes, joint rates, and switching arrangements presently existing."

Other railroad interveners are the New York Central and Indiana Harbor Belt, which do not oppose the application nor request the imposition of any conditions; their interest is in having the benefit on an equal basis with other roads of any conditions that may be imposed. The benefits of the conditions suggested by



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Natives of the Santa Fe Indian village at the Railroad Fair in Chicago lost little time bringing forth items for purchase when they were told that E. A. Bromley guides the spending of \$248,000,000 annually as vice-president in charge of purchases and stores for Canada's largest spender—the Grand Trunk Western-Canadian National System. While a Navajo brave helps him don a blanket, a member of the Hopi tribe implores him to buy a silver necklace, too

the C. & O. and adopted by the examiner would extend on an equal basis to all of Pullman's present connections. The only other recommended condition is the usual one for the protection of employees who might be adversely affected by the proposed acquisition.

The city of Chicago supports the application because the proposed acquisition would be in line with its plan to secure the services of a trunk line for the Lake Calumet Harbor facilities owned by the city. The only shipper witness to appear at the hearing was the manager of a warehouse served by the Belt, and he took a position similar to that road's.

Examiner Albus said the Rock Island has sustained the burden of proof that the proposed acquisition is consistent with the public interest. The fact remains, the proposed report continued, that the Rock Island, by virtue of its contract with Pullman, is the only carrier in a position to submit an application at this time. The report noted that Pullman has no industrial department and that "little or no efforts" have been made to develop the property. But, the report added, it is expected that this condition "will be remedied" through the efforts of Rock Island's "well-organized" industrial department, and that "adequate" transportation service will be available to the industries now served by

Georgia, Florida & Alabama.—Reorganization.—All but one change sought in

petitions for modification of this road's plan of reorganization under section 77 of the Bankruptcy Act have been denied by the Interstate Commerce Commission in a supplemental report in the proceeding-Finance Docket No. 14636. The plan, as previously approved by the commission in a report by its Division 4, was outlined in the Railway Age of December 4, 1948, page 70. The single change now made in the supplemental report by the entire commission provides for payment in cash of any interest which may accrue on the bankrupt company's 6 per cent, first-mortgage and refunding bonds between December 31, 1948, and the effective date of the plan-if the court should exercise its authority to postpone the effective date, now fixed as January 1, 1949. The court's authority to postpone the date was set out in a provision of the commision's order which went on to say that such postponement may be for "6-months periods or multiples thereof" so that the effective date "will not be more than 6 months prior to the date of consummation" of the plan.

The interest provision was among modifications sought in petitions filed by the Seaboard Air Line, lessee of the bankrupt's properties and owner of all of its common stock and about 921/2 per cent of the bonds involved; and by the Bankers Trust Company and R. Gregory Page, trustees under the first and refunding mortgage. These petitioners also contended that the bondholders were entitled to all of the reorganized company's securities, that contention having been based on court rulings to the effect that senior creditors are entitled to full satisfaction of their claims before provision can be made for junior creditors or stockholders. Under the reorganization plan, the bondholders will receive, for each \$1,000 bond and unpaid interest thereon, \$360 in cash, \$700 in new income bonds, \$600 in new preferred and 5 shares of new common stock.

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The latter will be no-par stock with a stated value of \$100 per share, but distribution to bondholders on the foregoing basis will take up only 8,750 shares of the 11,250 shares to be issued. As to the other 2,500 shares, a footnote in the commission's report said: "They may be absorbed by the claims of the bondholders in the event interest on unpaid interest is allowed by the court; they may go entirely or in part to satisfy general unsecured claims, dependent upon whether any such claims are allowed by the court · · · ; or they may go entirely or in part to the holders of the outstanding firstpreferred stock, depending upon the disposition of the claims mentioned above."

After discussing at some length the S.A.L. and mortgage trustees' contention that the bondholders should have received all of the new company's securities, the commission rejected it with a finding that the bondholders "will receive full compensation through participation in assets, provisions of the new securities, and control of the property, for the senior rights surrendered under the plan." Like-

wise rejected was the Seaboard's contention that the fund set aside for rehabilitation and betterment of G. F. & A. properties should be larger than the \$1,100,000 provided in the plan.

Meanwhile, the commission refused to make any of the modifications sought in another petition filed by the G. F. & A. as debtor company in the proceeding. That petition objected to the plan's provision for continued operation by the Seaboard under a 21-year lease and sought a modification which would order independent operation of the reorganized company. It also sought revision of the new capitalization to permit distribution of all of the new common stock to preferred stockholders of the old company. As to the former proposal, the commission concluded that "the public interest would not be served by permitting independent operation of the debtor's property." The proposal to allocate the new common stock to the debtor's preferred stock, the commission said, "cannot be entertained since the amount of cash and senior securities available for distribution would be inadequate to satisfy the senior creditor claims."

Helena & Northwestern.—Acquisition.— Division 4 of the Interstate Commerce Commission has conditionally authorized this recently organized company to acquire from the Missouri & Arkansas a 55-mi. line from Helena, Ark., to Cotton Plant. The line is part of the 335-mi. system formerly operated by the M.&A. but now abandoned by that company as authorized in a previous commission report. For the Helena-Cotton Plant line, the H.&N. will pay \$300,000-\$100,000 in cash with the remainder financed by a \$200,000 mortgage note. Division 4's report approving the acquisition also approved the issuance of this note and other H.&N. plans for raising capital to make the cash payment and to rehabilitate the property and get operations under way. In addition to issuance of the note, the approved plans contemplate the raising of \$200,000, including \$100,000 through the sale of a \$1000-share, \$100par issue of 5 per cent cumulative preferred stock and a like amount through the sale of a 1,000-share, \$100-par issue of common stock. The note will bear interest at 4 per cent, and will be payable to the M.&A. in five consecutive annual installments of \$40,000 each, beginning December 1, 1950.

One of the two conditions attached by the commission to its approval of the acquisition and financing will require that unpaid dividends on the preferred stock shall not be cumulative beyond three consecutive years, and that while accumulations exist the preferred stock shall have equal voting rights with the common. The other condition will require continuance of arrangements under which the Illinois Central has used for switching operations some of the tracks to be acquired by the H.&N. in Helena. This condition will also transfer to the H.&N. rights which the M.&A. had to

conduct switching operations over some of the I.C.'s Helena tracks.

New York, New Haven & Hartford.-State Purchase of South Station Proposed.-Governor Paul Dever of Massachusetts has come out in favor of a proposal that that state purchase the South station in Boston from the owning railroads at a cost of not more than \$9 million, for the alleged purpose of compelling the New York, New Haven & Hartford to maintain passenger service on lines of the former Old Colony between Boston and points on the south shore and Cape Cod. Under the plan reportedly favored by the governor, and said to be ready for introduction in the state legislature, railroads using the station would pay to the state rentals sufficient to pay off the purchase price, plus interest and maintenance, over a 40-year period, subject to necessary Interstate Commerce Commission approval. The South station is used jointly by the New Haven and the Boston & Albany (New York Central), and is actually owned by the Boston Terminal Company, which, in turn, is owned jointly by the N. H. and the B. & A.

Sanford & Eastern.—Acquisition and Securities.—Division 4 of the Interstate Commerce Commission has authorized this road to acquire for \$25,000 the Boston & Maine's line from Rochester, N. H., to Westbrook, Me., approximately 45 mi. (See Railway Age of April 30, page 64). The S.&E. was also authorized to issue \$75,000 of common stock (750 \$100-par shares), to S. M. Pinsly of Yonkers, N. Y. The proceeds of the issue will be used as follows: \$25,000 to purchase the above line; \$10,000 for a down payment on a 44-ton Diesel-electric locomotive to be purchased from the General Electric Company; \$3,000 for four used flat cars to be purchased from the New York, New Haven & Hartford; \$1,000 or a caboose; \$2,000 for additional shop machinery; \$10,000 for improvement of facilities; and \$24,000 for working capital.

Southern.-Acquisition.-Subject to a condition, among others, that the price be reduced from \$150,000 to \$75,000, Examiner Jerome K. Lyle has recommended in a proposed report that Division 4 of the Interstate Commerce Commission authorize this road to buy that section of the Buffalo, Union-Carolina's line from Buffalo, S. C., through Union to a point 1.6 mi. east thereof, 4.6 mi. The same report also recommended favorable commission action on the Buffalo's application for authority to abandon the remaining 14.6 mi. of its line, from the point 1.6 mi. east of Union to Pride, S. C. The Buffalo is a subsidiary of United Merchants & Manufacturers, Inc., a textile manufacturer which, the abandonment application said, "does not wish to engage further in the railroad business." Arrangements for sale of the Buffalo-Union segment of the line to the Southern were made after the failure of earlier

negotiations for sale of the entire line to local interests or to the Seaboard Air Line, which connects at Pride with the segment now proposed to be abandoned.

The Southern's agreement to purchase the Buffalo-Union segment was contingent upon the Buffalo's obtaining permission to abandon the remainder; and, in agreeing to pay \$150,000, the Southern "gave substantial consideration to the additional traffic it would receive,' Examiner Lyle said. His recommendation that commission approval of the purchase be conditioned on a cutting of the price to \$75,000 was based on his conclusions that this was desirable to provide the Southern "with a cushion against disappointment in the volume of traffic anticipated and in ....intenance of various specific services, which may prove to be of a marginal nature"; and that, under the circumstances, United Merchants should not expect to realize more than the "approximate net salvage value" of the line.

The proposed acquisition and abandonment were opposed by local shipping interests and by the South Carolina Public Service Commission. The shipper opposition, in general, was based on contentions that it was desirable to maintain railroad competition in the territory, and fears that the "somewhat personalized" service accorded by the Buffalo would be lost. In the latter connection, the Southern gave "assurances," but the examiner went along with the shippers' suggestion that "some safeguard is required against the arbitrary repudiation of such assurances in the future." Thus his recommendation that the commission's approval of the purchase be subject to a second condition which would stipulate that "the undertakings assumed by the Southern with respect to the continuation of specific services and facilities are to be continued until relieved by appropriate order of this commission."

A third condition imposes conditions for the protection of Buffalo employees who may be adversely affected. An agreement with respect to such conditions was reached by the Buffalo and the employees involved, and the cost is to be borne by that company or United Merchants, Examiner Lyle would nevertheless impose the employee-protection conditions also on the Southern as the carrier that "will remain subject to the jurisdiction of this commission."

Meanwhile, he had disposed of the opposition of the S. C. Public Service Commission which took the position that "no railroad company has a right to abandon service for the sole reason that it no longer desires to continue in the railroad business." This commission, the proposed report said, made no representations after its attorney requested that "adequate time" be allowed following the hearing for making a "complete study of the case" and a further presentation if such were "deemed necessary." The hearing was held on March 30 and 31. the examiner pointed out, adding that

"no further representations have been received."

Wheeling & Lake Erie.-Bonds.-This road has applied to the Interstate Commerce Commission for authority to issue and sell \$6,870,000 series B general and refunding mortgage bonds and to issue nominally \$4,000,000 series C general and refunding mortgage bonds. The proceeds of the series B issue would be applied toward the payment of \$6,870,-000 of first consolidated mortgage 4 per cent gold bonds due September 1, 1949. The series C bonds would be available for sale, with approval of the commission, to reimburse the W.&L.E.'s treasury for expenditures previously made for improvements. The application also seeks authority for transfer of the series C bonds to the New York, Chicago & St. Louis if the latter's pending application to lease the W.&L.E. is approved by the commission (see Railway Age of March 26, page 110). If thus transferred, the bonds could be sold by the Nickel Plate only for the purpose of paying a \$5,-000,000 W.&L.E. note to the Chase National Bank of New York or to obtain reimbursement for any balances due it from the W.&L.E. under the proposed

Both series of bonds would be dated August 15, would bear interest at a rate to be determined through competitive bidding, and would mature August 15, 1974. The indentures would contain sinking-fund provisions and the redemption prices would be computable after the public offering price of the series B bonds has been fixed.

#### Average Prices Stocks & Bonds

		July 12	Last	Last	
	Average price of 20 rep				
	sentative railway stocks		36.43	51.57	
	Average price of 20 rep		00.01	07.84	
	sentative railway bonds	84.50	82,81	91.74	

#### **Dividends Declared**

Alabama & Vicksburg.—3%, semiannual, payable October 1 to holders of record September 8.
Cleveland, Cincinnati, Chicago & St. Louis.—common, \$5.00, payable July 30 to holders of record July 15.
Vicksburg, Shreveport & Pacific.—preferred and common, 2½%, semiannual, both payable October 1 to holders of record September 8.

## CONSTRUCTION

#### Work on U. P. Totals \$3 1/3 Million

As reported under Equipment and Supplies, Signaling, the Union Pacific plans to spend more than \$11/2 million on new main-line signaling between Omaha, Neb., and Grand Island.

U. P. company forces, in collaboration, in some instances, with individual contractors, have recently constructed an addition to the mail terminal at Council

Bluffs, lowa, Cooper Construction Company being the contractor (\$96,000); constructed at Armstrong yard, Kansas City, Kan., 46,367 ft. of new freight yard tracks (including 64 turnouts), retired 14,073 ft. of track (including 32 turnouts), and lined over 9,800 ft. of existing track (\$267,143); installed, also at Armstrong yard, seven 100-ft. steel floodlighting towers (\$42,900), and erected a 40-ft. by 72-ft. fireproof building at Salt Lake City, Utah, to house equipment for centralized traffic control for the 325-mi. section of line between Caliente, Nev., and Salt Lake City, the building contractor being the Paulsen Construction Company (\$33,640).

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Projects underway include: Extension to present 20-ft. wide mail transfer platform and umbrella shed at Council Bluffs, and erection of new 261/2-ft. by 1,152-ft. transfer platform and umbrella shed (\$101,975); installation at the Union passenger station, Omaha, of additional 30,000-gal. Diesel fuel oil tank enclosed in concrete dike, four additional pumps and piping system, and rearrangement of control lines at both ends of depot platforms (\$58,940); installation, at Laramie, Wyo., of 1,375 ft. of overhead 6-in. steam line and 1,150 ft. of 3-in. return line from boiler house at timber treating plant to adzing, boring and incising mill building, replacing a small boiler house near the latter (\$35,390); widening of cuts at various locations between Cheyenne, Wyo., and Bitter Creek, and leveling off of old waste piles and filled ground, the waste earth to be placed in windrows well away from track to act as snow fence (contract for grading involving some 226,900 cu. yd. awarded to Morrison-Knudsen \$119, 325); installation of 3,640 16-ft. panels of wood snow fence to supplement the aforementioned earthwork in protecting cuts (\$120,120); installation of 1,800 16ft. panels of wood snow fence at various points between Pocatello, Idaho, and Shoshone, to protect cuts (\$50,000); installation of second-hand 80,000-bbl. Diesel fuel oil storage tank at Pocatello and construction of pumping plant, 1,470 ft. of additional trackage and other facilities necessary to supplement present 4,000-bbl. storage tank (\$151,400); replacement of various boilers, smokestacks and other facilities at the timber treating plant in The Dalles, Ore. (\$70,000); enlargement of standard clearance of the bore of tunnel No. 31/2 near Campbell, Ore., replacement of present timber lining and portals with reinforced concrete, and extension of bore 30 ft. west (\$347,-500); installation of 148.2 lin. mi. of standard right-of-way fence at six locations between Milford, Utah, and Tintic, to protect livestock and avoid damage claims (\$152,500); laying of 1,622 ft. of 12-in. and 14-in. pipe line at Las Vegas, Nev., building of 16-ft. by 23-ft. pumphouse and power line and installation of two booster pumps to provide water service to Bonanza Village and vicinity (\$31,660); building of additions to and rearrangement of Diesel servicing

facilities at Los Angeles, Cal. (\$36,800); and installation of 1,350 16-ft. panels of wood snow fence at various locations between Salt Lake City and Lynndyl, Utah, to protect cuts (\$40,000).

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Northern Pacific.—This road has awarded a contract to Leo S. Ross Construction Company, Yakima, Wash., for construction of a new 24-ft. by 65-ft. freighthouse and office building at Grandview, Wash., at a cost of approximately \$83,000.

## RAILWAY OFFICERS

#### EXECUTIVE

J. L. McKee, vice-president-assistant to the president, New York Central System, with headquarters at Chicago, retired on July 1. Mr. McKee was born at Constantine, Mich., on June 8, 1881, and entered railroad service in 1900 with the Atchison, Topeka & Santa Fe, serving for brief periods as express messenger and chainman. In 1901, he became yard bill clerk on the Lake Shore & Michigan Southern (now N. Y. C.) at Elkhart, Ind. He subsequently held the positions of freight brakeman, switch tender, switchman and assistant yardmaster, becoming general yardmaster of the same road at Windsor, Ont., in 1910. After serving as trainmaster and division superintendent, he joined the Delaware, Lackawanna & Western in 1917, as superintendent at Buffalo, N. Y. The fol-



J. L. McKee

lowing year he was advanced to assistant general superintendent of the Michigan Central at Detroit, Mich., and was successively appointed general superintendent and assistant general manager of that road at Detroit. In 1932, Mr. Mc-Kee was promoted to assistant vice-president of the N. Y. C. at Chicago and in 1937, became assistant vice-president and general manager. Six years later he was promoted again to vice-president and

general manager, with jurisdiction over the Michigan Central. Mr. McKee became vice-president of the N. Y. C. System at Chicago in August, 1944, and was advanced to vice-president-assistant to the president in August, 1947, which position he held at the time of his retirement.

L. A. Kane, superintendent of the Utah, with headquarters at Martin, Utah, has been elected president and general manager and a director, succeeding G. S. Anderson, who has retired after 32 years of service.

# FINANCIAL, LEGAL & ACCOUNTING

George C. Holdrege, whose appointment as assistant general solicitor of the Union Pacific at Omaha, Neb., was reported in the Railway Age of July 9, is a graduate of the University of Nebraska Law School. He began his railroad career with the U. P. in 1929 as a law clerk, and in 1934 was appointed an attorney. After serving as assistant general attorney from 1936 to July, 1942, Mr. Holdrege was promoted to general attorney, the position he held until his new appointment.

Dewey Michael Callahan, freight claim adjuster of the Missouri-Kansas-Texas Lines, has been appointed freight claim agent at Parsons, Kan., succeeding the late William H. Geagen.

R. C. Hendon, manager of the Prevention and Security department of the Railway Express Agency, with headquarters at New York, has been appointed manager of the General Claim department, a newly established central control agency for claim handling procedures. Operations of the Prevention and Security department will be incorporated into the General Claim department.

C. C. Michie, Jr., assistant insurance engineer of the Chesapeake & Ohio, has been appointed insurance engineer, with headquarters as before at Cleveland, Ohio, succeeding C. C. Strong, who has retired from active service under the company's retirement plan, after more than 30 years of service.

E. A. White, car accountant of the Chicago, Burlington & Quincy, with headquarters at Chicago, has been promoted to auditor of freight accounts, succeeding the late F. C. Kersten. Mr. White has been succeeded by W. N. Ernzen. F. J. Dillon has been appointed assistant auditor of freight accounts.

C. B. Matthai, whose promotion to general solicitor of the Union Pacific at Omaha, Neb., was reported in the Railway Age of July 9, entered railroad service with the U. P. in June, 1902, as secretary to the general attorney and later became chief clerk in the law department. While holding the latter position he attended Creighton University Law School at night, and upon graduation in 1914 was admitted to law practice. During the period of federal control of the railroads, he served as assistant corporation counsel, and at the termination of



C. B. Matthai

control he was again appointed attorney, being advanced to general attorney in 1935. Mr. Matthai, who has also served as assistant secretary of the system lines since 1921, subsequently became assistant general solicitor, the post he held at the time of his recent promotion.

#### OPERATING

L. R. Taylor, assistant superintendent and master mechanic of the Utah, at Provo, Utah, has been appointed superintendent and master mechanic at Martin, Utah. The position of assistant superintendent has been abolished.

Lee Arnett Grubbs, general superintendent of the Eastern General division, Chesapeake district, of the Chesapeake & Ohio at Clifton Forge, Va., whose retirement was reported in the Railway Age of July 9, was born at Pendleton, Va., on October 7, 1883. Mr. Grubbs entered the service of the C. & O. on October 30, 1900, as telegraph operator at Atlee, Va., and subsequently served as train dispatcher, chief dispatcher, trainmaster, assistant superintendent and superintendent of the Clifton Forge division, successively, all at Clifton Forge. He was named general superintendent of the Eastern General division in June, 1940.

C. J. Nelson, superintendent, Chicago Car Interchange Bureau, retired on June 30, and has been succeeded by H. L. Hewing, district general car foreman of the Chicago, Milwaukee, St. Paul & Pacific at Chicago.

#### TRAFFIC

C. S. Doupe, district freight agent of the Canadian Pacific at Fort William, Ont., has been transferred to Edmonton,

Alta., succeeding H. K. Wright. Mr. Doupe has been succeeded by E. E. Bortlom, district freight agent at Moose Jaw, Sask. Mr. Wright has been appointed district freight agent at Brandon, Man., succeeding J. A. MocDonnell, who has replaced Mr. Bartlam.

J. F. Sullivan, who will retire on July 31 as passenger traffic manager of the Southern Pacific Lines in Texas and Louisiana at Houston, Tex., as reported in the Railway Age of July 2, was born on July 27, 1879, at Cincinnati, Ohio, where he attended the public schools. He entered railroad service with the S. P. Lines in Texas and Louisiana in August, 1899, as a stenographer in the superintendent's office at Houston, and in 1901



J. F. Sullivan

became ticket agent at Lake Charles, La. He returned to Houston as city passenger and ticket agent two years later, was appointed traveling passenger agent there in 1910 and, from 1917 to 1927, served as assistant general passenger agent in Houston. Mr. Sullivan was subsequently advanced to general passenger agent, being promoted to passenger traffic manager in November, 1941, which position he will continue to hold until his retirement.

#### MECHANICAL

Clyde B. Hitch, chief mechanical officer of the Chesapeake district of the Chesapeake & Ohio at Richmond, Va., whose retirement was reported in the Railway Age of July 9, was born at Terre Haute, Ind., on November 19, 1881. Mr. Hitch entered railroad service in 1896 as a machinist with the Vandalia (now part of the Pennsylvania) at Terre Haute, completing his apprenticeship in 1900. He later served as machinist on the Pere Marquette, Louisville & Nashville, Iron Mountain (now Missouri Pacific), Southern, and Chicago & Eastern Illinois. Mr. Hitch entered the service of the C.&O. as machinist at Lexington, Ky., in 1902 and subsequently served as general foreman, master mechanic and general master mechanic at various points. He was appointed assistant superintendent motive power at Huntington, W. Va., in 1934; superintendent motive power at Richmond in 1938, and chief mechanical officer at Richmond on May 1, 1943.

Richard J. Williams, chief mechanical officer of the Pere Marquette district of the Chesapeake & Ohio at Detroit, Mich., whose retirement was reported in the Railway Age of July 9, was born at Indianapolis, Ind., in 1882, and was graduated from Purdue University in 1905. Mr. Williams entered railroad service in 1899 as a helper on the Peoria & Eastern



Richard J. Williams

(now part of the New York Central) and, following his graduation from college, became a special apprentice, subsequently serving as foreman and shop superintendent. In 1917 he was appointed superintendent of motive power of the Pere Marquette, which was subsequently merged with the C.&O. Mr. Williams was named chief mechanical officer in 1943.

L. E. Dix, who will retire on August 1 as mechanical superintendent of the Texas & Pacific at Dallas, Tex., as reported in Railway Age of July 2, is a



L. E. Dix

native of Holton, Kan., and began his railroad career as a machinist apprentice with the Chicago, Rock Island & Pacific at Horton, Kan. He later served as machinist with the Atchison, Topeka & Santa Fe and the Missouri Pacific, and as master mechanic of the Union (a subsidiary of the M. P.) at Memphis, Tenn. In 1916 he was appointed master mechanic of the Texas & Pacific-M. P. Terminal (a joint subsidiary of the T. & P. and M. P.) at New Orleans, La., and in 1920 he was made master mechanic of the T. & P. at Fort Worth, Tex. In 1922 Mr. Dix was appointed fuel supervisor, becoming mechanical superintendent in October, 1946.

# ENGINEERING &

Frank R. Woolford, engineer maintenance of way and structures of the Western Pacific at San Francisco, Cal., has been promoted to chief engineer at that point, succeeding Thomas L. Phillips, who has retired after nearly 44 years of service with the W. P. W. T. Richards, division engineer, Western division, with headquarters at Sacramento, Cal., has replaced Mr. Woolford and has been succeeded by C. E. Elliott, estimating engineer.

Harry C. Lorenzen, whose retirement as signal engineer and superintendent of telegraph, Chesapeake & Ohio, Pere Marquette district, with headquarters at Detroit, Mich., was reported in Railway Age of July 2, was born on May 9, 1883, at Detroit, where he attended the public schools and Detroit Institute of Technology. He entered railroad service in August, 1902, with the Michigan Central (part of the New York Central), serving successively as helper, signal fitter and wireman on construction work. In 1905 he became employed as signal maintainer with the Interborough Rapid Transit Company, New York, and a year later joined the N. Y. C., electric zone, as signal inspector, construction. After holding the position of signal foreman, electric interlocking construction and maintenance on the M. C., from 1907 to 1910, he returned to the N. Y. C. to serve successively as circuit designer, signal inspector, circuit engineer, office engineer and construction engineer at Albany, N. Y. Mr. Lorenzen became assistant engineer, signal department, with the Pere Marquette in 1916, being appointed assistant signal engineer in 1923. He was advanced to signal engineer and superintendent of telegraph in January, 1942.

Frank Aikman, Jr., has been appointed engineer maintenance of way of the Long Island, with headquarters at Jamaica, N. Y., a new post. He succeeds John W. Wallenius, former division engineer of the Long Island, who has been appointed division engineer of the Eastern division of the Pennsylvania at Pittsburgh, Pa. A native of Brooklyn, N. Y., Mr. Aikman went to work for the New Jersey State Highway Commission after his graduation from Lafayette College in 1932 with the degree of B.S. in C.E. In 1934 he

joined the P.R.R. as an assistant on the engineering corps of the New York division and the following year went to the L.I. in the same capacity at Hicksville, N. Y. Returning to the Pennsylvania in 1936, Mr. Aikman served as assistant supervisor of track on the Delmarva and Maryland divisions. In August, 1939, he

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Frank Aikman, Jr.

was promoted to supervisor of track on the Toledo division and thereafter served in that capacity on the Logansport, St. Louis and Pittsburgh divisions until 1946, when he resigned to enter the food processing business at Latrobe, Pa. In November, 1948, he became associated with the Railroad Siding Construction Company of Pittsburgh, from which he was appointed to his present position with the Long Island.

John R. Prizer, whose appointment as engineer maintenance of structures of the Central of New Jersey at Jersey City, N. J., has been previously reported in the Railway Age, was born on March 22, 1886, at Pottstown, Pa., and was graduated from Lehigh University in 1908. Mr. Prizer entered railroad service in 1909 with the C. N. J. but from 1910 to 1915 was with the McClintic-Marshall Construction Company. He returned to the Central of New Jersey in 1915 and was serving as division engineer at Mauch Chunk, Pa., at the time of his appointment as engineer maintenance of structures.

Bernard J. Minetti, whose appointment as engineer structures of the Central of New Jersey at Jersey City, N. J., was recently reported in the Railway Age, was born on March 28, 1906, at New York. Mr. Minetti was graduated from St. Augustine's Academy and Brooklyn Polytechnic Institute, receiving his civil engineering degree in 1927 and the degree of Master of Civil Engineering in 1941 from the latter. He also attended New York University, Department of Architecture. Mr. Minetti entered railroad service in May, 1929, as bridge designer with the Pennsylvania at New York and from November, 1929, to February 1929, to Feb

ruary, 1942, served with the New York Central at New York as bridge designer and detailer and as assistant engineer. He joined the C. N. J. at Jersey City on February 2, 1942, as structural draftsman, being appointed assistant engineer on February 1, 1946, and assistant bridge engineer on January 1, 1947. Mr. Minetti served as bridge engineer from June 1, 1947, until he became engineer structures.

H. W. Johnson, assistant chief engineer of the Chicago Great Western, has been appointed chief engineer, with head-quarters at Chicago, succeeding W. C. Groth, who has retired after 43 years of service.

Mr. Groth was born at Preston, Minn., on September 14, 1882, and, from 1900 to 1904, attended the University of Minnesota. He began his railroad career in 1905 with the Minneapolis, St. Paul &



W. C. Groth

Sault Ste. Marie on location and construction work, and a year later joined the Great Western at St. Paul, Minn., as an instrumentman. In 1911 he was appointed division engineer, with head-quarters at Clarion, Iowa, and in 1918 was transferred to St. Paul. Mr. Groth was advanced to chief engineer at Chicago in January, 1933, in which capacity he served until his retirement.

Augustus Ecton Botts, assistant chief engineer (maintenance) of the Chesapeake district of the Chesapeake & Ohio, with headquarters at Richmond, Va., has retired after 41 years' service with that road. Mr. Botts was born in Bethel, Ky., on July 15, 1882, and was educated in the Sharpsburg, Ky., schools and at the University of Kentucky, where he studied mechanical engineering. He entered the service of the C. & O. in 1906 as a rodman at Ashland, Ky., and seven years later became division engineer at Ashland, subsequently transferring to Huntington, W. Va. In 1928 Mr. Botts became assistant engineer maintenance of way at Richmond, in which capacity he served until January 1, 1946, when he was named assistant chief engineer.

Edward J. Robrecht, whose appointment as assistant engineer maintenance of structures of the Central of New Jersey at Jersey City, N. J., was recently reported in the Railway Age, was born on September 13, 1887, at Newark, N. J. Mr. Robrecht was graduated from Cooper Union in 1910 and entered railroad service in April, 1911, in the engineering department of the C. N. J. He was transferred to the maintenance of way department in March, 1930, where he has since remained in connection with bridge and building work. Mr. Robrecht was assistant division engineer before his appointment as assistant engineer maintenance of structures.

### SPECIAL

The Southern Pacific has appointed the following assistant managers of personnel at San Francisco, Cal.: A. P. Brown, heretofore supervisor of shopping schedules at San Francisco; W. G. Kelly, formerly assistant to manager of dining cars, hotels, restaurants and news service at that point, and K. K. Schomp, heretofore assistant division superintendent at Los Angeles, Cal.

### OBITUARY

William H. Geagen, freight claim agent of the Missouri-Kansas-Texas Lines at Farsons, Kan., died recently.

John H. Valentine, superintendent of the Milwaukee division of the Chicago, Milwaukee, St. Paul & Pacific, at Milwaukee, Wis., died in that city on July 6. Mr. Valentine was born at Cross Plains, Wis., on October 3, 1888, and entered railroad service in 1904 as a telegraph operator on the Chicago, Milwaukee & St. Paul (now C.M.St.P.&P.). For the next five years he served at various points on the LaCrosse (Wis.), Racine and Southwestern divisions as agent and operator, and from 1909 to 1925 he held the positions successively of telegraph operator in the dispatcher's office of the Chicago and Milwaukee division at Chicago, train dispatcher at that point, night dispatcher and chief dispatcher of the Madison division at Madison, Wis., and the Illinois division at Savanna, Ill. He was subsequently promoted to trainmaster of the Kansas City division, with headquarters at Ottumwa, Iowa, and in 1926 became assistant superintendent, Chicago terminals. He was advanced to superintendent Superior division, at Green Bay, Wis., in 1928. Two years later Mr. Valentine was transferred to Terre Haute, Ind., and in 1932 was appointed superintendent at Milwaukee.

F. C. Kersten, auditor of freight accounts of the Chicago, Burlington & Quincy, at Chicago, died on June 15 at MacNeal Memorial Hospital, Berwyn, III.

	Av. mileage operated		Operating revenues		fa.	ance of	Operating Expenses	896	(		Net		Net railway operating income	way
Akron, Canton & Youngstown		Freight 394,637 2,021,690 30,550,233 154,482,890 126,093 775,217	Passenger 49 277 3,779,423 19,447,602 6,258	(inc. misc.) 410,977 2,104,765 37,813,095 191,434,333 132,970 815,902	Way and structures 73,060 371,962 7,322,714 32,119,074 143,096	## Equipment	Traffic 26,406 141,217 1,090,498 4,821,407 6,923 34,147	17,484 117,484 619,266 13,982,512 68,801,669 38,001 220,128	Total 286,308 1,512,907 31,720,473 154,797,655 531,833	Operating ratio 71.9 83.9 80.9 69.8	rantway operation 124,669 591,858 6,092,622 36,636,678 284,069	tax accruals 49,736 232,947 3,531,822 20,210,137 115,365	1949 62,762 283,541 2,003,852 5,753,938 105,487	1948 93,475 465,296 4,975,885 20,836,081 48,118
Atlanta & West PointMay Western of AlabamaMay Talantic Coast LineMay	93 93 93 133 133 94 5,562 85	250,841 1,257,813 263,946 1,307,058 8,215,174 44,818,148	38,691 229,102 38,230 226,883 1,141,283 9,323,578	325,484 1,684,461 328,643 1,684,087 10,086,084 58,274,444	47,812 196,534 43,995 219,667 1,690,359 8,265,142	52,160 254,338 57,654 282,192 1,991,358 10,294,541	13,849 73,418 13,766 72,873 293,750 1,546,752	165,889 856,260 147,552 761,337 4,411,207 23,814,915	302,750 1,497,357 283,977 1,442,563 8,852,927 46,635,891	93.0 88.9 86.4 85.7 87.8 80.1	22,734 187,104 44,666 241,524 1,233,157 11,638,553	15,680 109,929 29,395 157,726 800,000 5,800,000	-10,321 -1,754 16,208 93,170 157,441 4,515,928	17,221 89,664 36,492 191,361 556,802 5,202,323
Charleston & Western CarolinaMay Baltimore & Ohio	(y 343 8. 6,202 8. 6,202 1. 6,202 1. 29	405,396 2,037,917 30,735,219 141,349,155 183,378 899,849	1,936 14,396 1,806,536 8,890,736 53,657 273,868	415,848 2,102,147 34,373,953 158,621,939 241,499 1,196,947	81,945 404,981 4,987,691 19,029,250 38,664 213,266	73,125 393,083 6,607,404 31,203,439 37,497 201,350	15,035 78,594 786,301 3,636,241 1,692 8,826	180,481 888,461 13,645,454 66,085,916 122,731 630,535	362,986 1,820,884 27,373,408 126,825,111 232,450 1,208,555	87.3 86.6 79.6 80.0 96.3	52,862 281,263 7,000,545 31,796,828 9,049 —11,608	25,000 140,000 2,914,080 14,006,223 33,168 170,771	9,625 83,358 3,072,715 15,063,203 38,499	76,753 167,726 3,953,709 14,392,508 —18,686
Bangor & AroestookMay Bessemer & Lake ErieMay S mos. Boston & MaineMay 5 mos.	(y) 602 8. 602 (y) 214 8. 1,757 9. 1,757	953,631 7,669,746 2,990,999 8,889,534 5,336,282 26,858,715	29,014 173,313 1,304 1,304 5,674 1,017,312 5,175,433	1,015,791 7,999,637 3,015,731 8,998,094 6,923,497 35,008,904	288,866 1,309,693 244,783 973,549 1,089,089 5,431,917	190,797 933,409 607,867 2,947,110 1,110,106 5,605,355	12,267 59,531 14,982 86,104 102,212 526,538	243,073 1,825,355 538,857 2,200,459 2,899,062 15,128,590	782,730 4,367,579 1,485,961 6,580,125 5,501,210 28,229,238	77.1 54.6 49.3 73.1 79.5 80.6	233,061 3,632,058 1,529,770 2,417,969 1,422,287 6,779,666	138,280 1,596,836 726,427 1,451,387 625,763 3,007,817	107,001 1,9 <b>0</b> 5,196 980,495 1,853,612 503,288 2,263,414	198,855 1,826,341 1,112,800 2,072,702 684,610 1,940,030
Burlington-Rock IslandMay Cambria & IndianaMay Canadian Pacific Lines in MaineMay 5 mos.	1y 2228 1y 2228 1y 355 1y 2345 6. 2346	422,177 1,729,154 144,556 693,115 331,006 2,921,448	47,117 243,049 38,792 203,270	488,468 2,078,802 144,598 693,327 397,149 3,251,059	61,784 278,205 14,320 72,965 135,804 454,713	37,445 201,928 78,598 375,603 75,627 465,166	4,432 24,838 947 4,491 7,303 35,421	167,998 821,651 26,580 127,556 169,103 1,175,578	292,681 1,433,602 130,232 626,869 400,501 2,198,500	59.9 69.0 90.1 90.4 100.8 67.6	195,787 645,200 14,366 66,458 —3,352 1,052,559	9,311 47,213 56,158 252,291 24,583 127,788	109,459 299,821 69,749 317,808 —83,115 543,792	76,349 155,188 46,053 105,917 34,231 384,784
Canadian Pacific Lines in VermontMay  Central of GeorgiaMay  Sanos.  Central of New Jersey	33, 90 90, 90 33, 1,815 96, 1,815 34, 415	136,708 693,499 2,402,085 12,576,178 2,532,664 12,228,441	12,301 74,118 208,137 1,231,509 539,059 2,526,382	170,831 850,028 2,853,031 15,067,338 3,249,980 15,747,586	56,252 197,821 502,119 2,386,524 580,047 2,375,515	41,333 198,724 455,555 2,462,884 570,187 2,910,886	5,707 27,189 100,786 549,663 51,395 268,162	162,954 745,819 1,395,357 7,247,159 1,554,869 8,155,922	273,859 1,209,819 2,627,627 13,524,156 2,941,226 14,620,593	160.3 142.3 92.1 89.8 90.5	—103,028 —359,791 225,404 1,543,182 308,754 1,126,993	13,687 66,211 208,979 1,042,576 384,800 1,956,145	—152,732 —608,591 6,059 299,259 —314,097 —2,191,881	-93,591 275,628 718,654 -2,237,592
Central of Pennsylvania	212 28. 212 89. 212 703. 422 422 5,104 5,104	1,600,366 7,248,740 705,000 3,414,000 27,180,456 120,184,949	15,584 76,327 48,000 289,000 852,266 3,946,445	1,649,871 7,505,344 801,000 3,953,600 29,363,838 129,442,867	222,646 792,952 160,759 688,183 3,736,883 17,139,092	267,615 1,350,994 150,077 785,256 5,682,728 24,812,276	23,476 118,282 15,171 76,550 524,898 2,822,943	462,346 2,339,085 321,384 1,740,956 9,295,663 44,852,531	1,018,831 4,821,140 683,780 3,489,780 20,322,649 95,348,257	61.8 64.2 85.4 88.3 69.2 73.7	631,040 2,684,204 117,220 463,220 9,041,189 34,094,610	58,629 318,652 60,865 247,710 4,106,167 16,462,846	824,811 3,639,146 11,988 —2,395 4,999,125 18,485,281	888,298 3,768,707 197,621 266,332 5,664,189
Chicago & Eastern Illinois	909 909 83, 131 131 131 8,076 83,076	1,777,740 9,514,183 755,902 8,606,466 10,548,750 52,660,415	244,912 1,481,602 884 4,167 1,759,417 8,236,485	2,226,876 12,122,734 770,120 3,694,464 13,804,323 68,172,323	376,189 1,731,004 84,340 411,885 2,502,132 11,883,380	532,781 2,415,468 143,261 709,314 3,082,476 15,797,164	111,243 542,373 24,017 130,334 309,000 1,534,170	991,317 5,216,164 198,292 1,014,960 6,593,521 35,234,495	2,159,419 10,664,623 486,222 2,439,197 13,222,001 68,282,695	97.0 88.0 63.1 66.0 95.8 100.2	67,457 1,458,111 283,898 1,255,267 582,322 —110,372	72,500 626,618 109,316 499,153 1,042,270 5,134,626	91,505 335,988 156,735 676,709 —396,387 —5,372,483	140,550 784,945 249,154 637,103 2,406,464 —24,899
Chicago, Burlington & QuincyMay Smos. Chicago Great WesternMay Shos, Chicago, Indianapolis & LouisvilleMay 5 mos.	98, 8,714 98, 114,500 98, 1,500 98, 1,500 541 541	13,858,648 70,921,497 2,338,071 12,188,888 1,246,292 6,435,150	1,308,252 6,462,335 17,608 174,511 98,701 471,626	16,836,384 85,469,955 2,508,806 13,189,345 1,436,457 7,370,353	3,963,576 14,177,003 579,359 2,425,997 257,366 1,249,382	3,278,720 16,372,514 295,327 1,553,830 274,937 1,315,295	483,847 2,313,357 101,926 533,292 80,112 399,557	6,289,245 32,839,125 887,444 5,160,689 578,831 2,944,930	14,711,362 69,257,008 1,942,244 10,066,797 1,284,733 6,365,576	87.4 81.0 77.4 76.3 89.4 86.4	2,125,022 16,212,947 566,562 3,122,548 151,724 1,004,777	1,023,971 8,912,009 172,296 1,060,114 78,566 392,383	888,806 5,464,010 1,55,421 1,006,274 -10,993 224,318	2,513,766 11,759,579 318,820 1,285,912 204,357 772,907
Chicago, Milwaukee, St. Paul & Pacific May Chicago, Rock Island & Pacific	ay 10,670 os. 10,670 ay 7,620 os. 7,624 1,624 os. 1,617	15,070,113 77,559,586 11,849,121 59,161,295 1,862,249 10,267,515	1,555,299 7,103,554 1,532,379 8,611,330 204,443 922,863	18,569,069 93,695,451 14,403,598 73,079,889 2,273,913 12,143,302	3,943,810 15,021,228 2,184,686 8,946,521 425,580 1,873,758	3,624,257 19,935,792 2,746,437 12,261,726 446,457 2,342,839	434,753 2,115,241 460,087 2,291,422 53,132 282,696	8,162,879 43,608,671 5,432,752 28,764,582 1,152,077 6,469,221	17,060,236 85,413,999 11,531,130 55,802,294 2,189,749 11,557,846	91.9 91.2 80.1 76.4 96.3	1,508,833 8,281,452 2,872,468 17,277,595 84,164 585,456	1,389,000 6,937,000 1,347,896 7,806,546 162,084 891,680	-227,610 -644,179 844,987 6,017,220 -140,359 -742,696	1,159,941 2,181,404 1,308,670 5,801,924 132,674
Clinchfield May Colorado & Southern May S mos.  Kt. Worth & Denver City May	ay 317 08. 317 ay 745 os. 745 os. 902 os. 902	1,582,803 7,285,981 885,865 4,530,854 1,045,141 4,695,787	4,401 21,582 66,890 354,310 103,712 571,040	1,597,603 7,367,972 1,035,198 5,291,876 1,245,249 5,733,591	186,906 859,282 179,377 705,197 231,650 987,837	308,329 1,478,946 188,185 1,006,451 195,466 901,245	33,527 168,193 25,514 125,599 40,843 210,028	421,734 2,109,691 393,481 2,193,891 445,642 2,211,723	983,513 4,767,972 834,372 4,280,959 985,167 4,667,228	61.6 64.7 80.6 80.9 79.1 81.4	614,095 2,600,004 200,823 1,010,918 260,082 1,066,363	161,549 784,203 98,169 501,278 78,566 359,967	555,914 2,113,037 58,089 294,041 104,958 467,516	2,787,738 1,037 306,186 104,663 483,633

483,633

467,516

359,967

1,066,363

40,843 445,042 4,667,228 81.4

195,466

231,650

103,712 1,245,249 571,040 5,733,591

745 4,550,654 902 1,045,141 902 4,695,787

5 mos. Pt. Worth & Denver City............................... 5 mos. 5 mos.

1949

			MC	MONTH OF MA	Y AND	FIVE MONTHS	OF C	ALENDAR YEAR	1949			Net		Net railway	/ come
		Av mileage				Maintena	1 4	ung Expenses	E			>	(	operature	1010
	Name of road	operated	Froigh	Operating revenues  Respectively.	Total	Way and structures	Equip- ment	Traffic				ta .	accruals		52,284 52,152
පී පී		period 41 168 168	122,860 705,623 150,072 768,538		203,044 1,151,247 155,607 799,594 4,505,667	16,846 63,960 121 38,852 27 175,918 133 775,891 977	26,390 121,028 27,177 133,992 977,517	4,814 22,699 75,958	446,267 45,284 224,911 1,750,641	679,624 137,072 643,689 3,730,048 18,060,683	882.8 83.5 83.5	471,623 18,535 155,905 775,619 ,559,399		64	5,690 96,603 654,920 5,568,094
ŭ la c	Delaware & Hudson 5 mos.  Delaware, Lackawanna & Western 5 mos.  Danyer & Rio Grande Western 5 mos.	2,440	20,242,970 20,242,970 6,043,054 27,931,413 4,702,709 25,083,339	844,486 5 816,128 4,090,114 240,387 1,231,662	1	3,044,240 1,049,350 4,644,993 9,641,863 3,641,800	1,333,838 6,355,058 1,045,982 5,265,331			5,884,938 28,607,040 4,354,296 21,213,300 96,412	79.4 84.3 76.8 64.8	1,527,550 6,009,687 808,096 6,402,834 5,22,84	750,359 3,171,344 2, 415,353 2,930,929 3 21,569	742,333 2,706,526 3,462,191 13,462,191 136,659	981,172 ,408,780 ,347,219 1,938,485 47,191 217,144
ñ		232	138,381 671,114	4,062	726,241	157,500	122,556		- 1	997,515				61,330	90,351
ĬĀ Ā		464 464 464	478,152 2,813,806 770,556 6,619,157	2,981 6,588	480,302 2,826,823 831,734 6,853,846 6,276,969	61,755 234,345 153,737 787,073 577,594	44,819 225,253 208,516 1,127,444 564,832	13,499 65,751 22,875 124,053 8,876 41,272	155,624 831,821 282,447 1,715,916 1,337,625 4,284,538	1,416,499 1,416,499 703,501 3,943,751 2,550,981 10,164,758	84.6 57.5 40.6 78.3	1,410,324 128,233 2,910,095 3,725,988 2,816,247	448,235 Cr2,038 1,103,769 975,032 2,586,991	528,381 81,430 81,430 752,295 ,157,686	198,854 1,251,758 2,709,354 790,730
D	Duluth, Missabe & Iron RangeMay	575	11,124,736	13,709	12,981,005	2,961,220			112,061	209,821	100	44,079	21,512	-143,733	129,424
ID B	Duluth, Winnipeg & Pacific	175 175 238 238	247,000 1,366,000 3,509,132 17,198,922	3,500 9,300 7 18 18	253,900 1,391,700 4,257,011 20,533,560 12,790,335	308,041 327,156 1,323,109 2,108,090	239,033 532,843 2,898,865 2,448,656	21,012 27,954 141,419 348,871	663,514 1,277,699 6,805,018 5,171,644	1,261,590 2,277,862 11,726,112 10,759,384 51,511,237	84.1 84.1 81.5	1,979,149 8,807,448 2,030,951 11,683,369	818,484 3,363,591 1,000,595 5,571,718	1,005,938 3,897,281 707,652 4,613,515	879,333 2,623,897 1,545,485 6,912,336
H	Erie	2,231		3,036,806	63,194,606	8	11,913,124	1,010,129	741 509	1 764 577		263,253	154,240	-31,872	134,420
12 0	da East Coast	575 575 326 326 408			2,027,830 14,133,766 658,427 3,415,945 193,530	412,942 1,925,026 109,269 524,065 69,403	383,662 2,078,635 98,659 501,684 41,642 184,754	935,772 28,807 146,774 15,522 77,804	5,049,732 319,701 1,667,635 93,700 500,011	10,374,836 10,374,836 5,993,654 2,993,654 1,203,767	73.4 89.1 87.6 119.7 106.9	3,758,930 71,959 422,291 -38,109 -77,471	1,353,790 35,051 174,136 15,631 79,875	1,088,805 49,543 330,831 -64,891	
	20.	408		- 1	4,153,000			63,011	1,734,261	3,337,226	80.4	815,774 3,025,073	254,364 1,207,149 22,576	429,191 1,366,948 —120,682	639,213 -85,516
	Grand Trunk Western		17,272,000		17,884,091	294,730 294,730 4,349,195	2,935,457	2,842 14,334 364,719	117,901 630,736 6,167,952 31,602,011	243,847 1,255,910 14,468,091 67,946,271	143.0 80.9 88.4	377,910 3,416,000 8,955,104	112,880 1,543,083 7,036,266	641,324 1,747,351 566,416	2,566,431 4,844,535
	Great Northern			4	76,901,375	16	15	-	88,321	1		39,880	21,561	5,641 83,157	130,007
	Green Bay & Western	222 4222 4290 1090 1090	272,220 4 1,399,142 1 5,033,086 11 26,196,698	395,542 2,178,558 2,099,588	1,436,364 5,861,701 30,519,746 20,952,444	336,252 1,034,778 5,347,492 3,956,066	1,053,224 5,437,113 3,877,530	92,905 227,205 1,120,165 472,703 9 255,151	472,291 1,907,131 10,085,656 7,604,424 39,525,598	4,518,990 23,521,992 16,828,037 82,726,857	77.1 77.1 80.3 78.4	1,342,711 6,997,754 4,124,407 22,858,979	554,800 2,855,732 2,277,333 12,081,210	2,779,194 1,763,126 9,913,538	3,029,548 2,981,102 10,582,941
	Illinois Central	600		10	12	17,	10,	1				1,062,085	97,553	86,803 508,326	143,289 722,478 851,336
	ທ .ທ		474 723,083 474 3,816,823 891 3,005,550 891 15,149,890	556,484 0 98,416 0 447,659	4,843,993 3,357,386 16,812,544 477,743	751,052 6 290,803 4 1,456,360 3 65,602	432,034 432,034 1,963,973 35,061	100,227 473,762 17,457 85,128	4,812,003 4,812,003 123,704 634,885	1,935,919 9,360,950 262,800 1,284,732	55.7.7 55.0 53.0	1,421,467 7,451,594 214,943 1,110,975	482,000 2,625,000 93,847 482,177	3,903,262 97,585 471,072	က်
	Kansas, Oklahoma & Gulf 5 mos.				61						45	250,600	101,674		
			156 378,412 156 938,856 96 256,086 96 1,206,710 191 759,700	240		2 222,773 2 222,773 11 48,967 8 167,977 72 112,065	253,513 42,091 7 197,416 5 98,804 5 540,922	9,402 8,940 46,016 11,066 55,205	322,040 96,253 478,883 187,862 849,059	854,535 205,118 938,228 440,182 2,148,964	70.8 777.5 57.6 74.7	51,473 51,473 271,690 324,110 728,103			
	Lehigh & New England 5 mos		- 1							1		1,089,088	64	6.4	
	Lebigh Valley 5 mos.		252 5,531,677 252 26,376,795 256 1,440,500 756 7,067,511	77 307,219 95 1,659,925 00 61,800 11 302,783	5 29,459,832 0 1,571,283 3 7,689,650	4,034,884 210,808 1,003,760	84 5,038,101 08 174,251 50 907,979	1 704,975 1 53,643 9 257,808 326,077	13,077,913 505,206 2,495,322 6,573,117	2.4,103,100 6.1,005,588 4,946,399 7.13,369,726	8 64.0 64.3 83.0	2,743,251 2,736,640		278,655 1,308,299 1,569,658 6,615,801	1,349,921 1,700,968 5,956,533
(149		44						-							

	Av. mileage	900	motion a societa		Meinen		Operating Expenses	89			Net		Net railway	ay
Name of road	during	1	Operating revenues	F	Way and Equi	Equip-	E	Frans-	_	Operating		Railway	operating	псоше
Maine Central	period 981 981 334 1,421 1,421	Freight 1,677,711 10,016,853 126,691 744,258 1,402,819 7,295,520	Passenger 143,047 672,246 15 15 11,166 47,431	(unc. misc.) 1,956,553 11,292,348 129,036 760,912 1,469,934 7,576,604	structures 396,761 1,759,051 46,699 185,113 351,051 1,442,465	ment 445,997 2,198,164 16,686 92,349 258,356 1,277,418	15,144 93,633 3,808 18,547 104,979 541,141	Portation 671,292 3,780,443 53,646 270,770 499,453 2,732,730	Total 1,594,696 8,167,132 127,400 600,961 1,307,950 6,450,350	81.5 72.3 98.7 79.0 89.0	operation t 361,857 3,125,216 1,636 159,951 161,984 1,126,254	195,602 1,541,328 Cr. 2,597 78,647 109,468	1949 144,896 1,263,977 -6,095 37,445 33,965 399,686	1948 252,921 1,055,603 21,653 97,767 107,203 446,721
Minn., St. Paul & S. Ste. Marie	3,224 3,224 530 530 152 152	2,481,917 11,078,065 402,578 2,132,982 183,709 743,761	93,142 396,928 13,428 49,559 970 6,541	2,766,739 12,254,018 441,483 2,290,658 195,917 809,179	625,200 2,756,285 96,667 482,768 36,637 208,836	468,038 2,515,900 91,757 488,211 14,478 88,463	66,019 316,903 17,638 90,860 3,764 20,012	1,157,107 5,863,189 197,798 1,034,149 75,061 335,189	2,419,874 11,960,985 414,180 2,151,042 137,741 696,622	87.5 97.6 93.8 93.9 70.3 86.1	346,865 293,033 27,303 139,616 58,176 112,557	203,970 938,067 24,310 117,473 111,308 55,500	114,451 -848,068 -16,829 -74,365 34,947 -2,159	104,553 1,334,342 256,713 4,218 54,548
Missouri-HinoisMay Missouri-Kansas-Texas Lines5 mos.	148 148 172 172 3,253 3,253	180,178 940,158 364,964 1,778,558 5,076,497 27,027,083	—44 93 289 1,010 356,370 1,815,719	184,684 963,037 367,194 1,789,649 5,900,869 31,115,305	58,845 260,174 64,928 302,955 860,835 4,681,122	23,031 110,650 48,719 236,188 895,450 4,517,947	12,456 62,680 6,991 35,337 226,772 1,104,860	41,615 249,094 101,012 484,873 2,259,217 12,281,302	144,966 728,963 231,715 1,091,334 4,537,194 24,011,468	78.5 75.7 63.1 61.0 76.9	39,718 234,074 135,479 698,315 1,363,675 7,103,837	15,360 96,778 37,736 259,738 558,018 2,756,079	10,014 61,867 83,686 405,925 498,517 2,369,453	35,289 98,873 100,703 406,475 640,822 2,410,225
Missouri Pacific May Gulf Coast Lines May International-Great Northern May 5 mos.	7,004 7,006 1,711 1,714 1,110 1,110	13,554,781 70,875,927 3,268,015 16,093,705 2,286,715 10,957,549	950,288 4,878,897 84,559 463,235 159,041 813,228	16,029,473 82,908,329 3,506,912 17,375,525 2,692,073 13,078,361	2,808,911 12,710,127 506,113 2,972,790 416,146 2,245,475	2,816,602 14,506,467 362,184 2,060,433 373,001 2,018,674	404,989 2,068,443 86,818 407,349 51,694 262,104	6,414,541 33,261,052 1,081,927 5,756,489 1,152,936 5,702,883	12,975,675 65,458,024 2,159,969 11,812,320 2,096,916 10,761,314	80.9 79.0 61.59 67.98 77.9	3,053,798 17,450,305 1,346,943 5,563,205 595,157 2,317,047	1,010,147 5,959,110 475,728 1,691,129 105,122 558,202	1,442,201 8,557,669 596,946 2,648,522 375,361 1,060,679	1,750,427 7,829,104 740,407 4,103,415 -9,487 50,790
MonongahelaMay S MontourMay S MontourMay S MontourMay S MontourMay St. LouisMay S MontourS Mo	170 170 51 51 51 1,051 1,051	732,309 3,228,987 323,903 1,302,931 2,309,400 11,523,675	916 5,076  159,959 929,771	736,242 3,256,299 324,125 1,308,546 2,702,558 13,723,105	92,742 422,268 29,690 102,166 415,653 2,174,020	73,308 349,271 87,644 398,449 414,436 1,798,497	1,393 5,283 840 4,204 110,445 534,422	218,661 1,050,070 91,688 413,144 1,184,365 5,751,441	399,838 1,862,262 221,552 973,214 2,247,209 10,849,418	54.3 57.2 68.4 74.4 83.2 79.1	336,404 1,394,037 102,573 335,332 455,349 2,873,687	10,214 379,862 65,134 277,204 241,995 1,477,683	195,520 397,706 78,378 323,493 202,894 1,338,318	225,706 429,891 86,636 310,351 240,064 1,077,580
New York Central	10,731 10,731 221 221 1,687 1,687	42,925,876 219,543,063 3,741,585 17,848,768 8,098,629 41,088,235	9,318,315 48,179,333 79,038 411,483 112,752 609,514	58,350,689 297,858,651 3,953,908 19,076,664 8,405,986 42,671,148	9,032,549 39,048,135 469,746 2,198,171 1,104,925 5,535,259	13,160,009 61,792,181 1,086,176 5,026,223 1,402,845 6,866,324	1,020,699 5,077,225 68,299 334,460 217,625 1,094,245	26,155,164 136,209,734 1,307,004 6,580,835 2,839,987 14,979,255	52,260,147 257,673,448 3,108,573 15,085,801 5,888,248 30,008,118	89.6 86.5 78.6 79.1 70.1	6,090,542 40,185,203 845,335 3,990,863 2,517,738 12,663,030	3,988,785 22,105,480 526,458 2,870,033 1,017,454 4,994,711	720,006 10,937,636 843,517 4,026,711 1,228,525 6,010,029	3,678,061 2,809,318 940,305 3,434,558 1,525,137 6,156,254
New York, New Haven & Hartford May 5 mos. New York Connecting	1,798 1,798 21 21 544 544	7,106,953 36,439,163 192,380 1,095,476 498,124 2,365,793	4,001,506 20,190,020  6,468 15,235	12,252,962 62,653,513 202,823 1,157,583 550,938 2,595,414	1,770,039 8,948,965 85,627 342,309 93,161 454,912	1,854,999 9,176,254 18,620 120,815 81,305 433,749	242,162 1,223,038  28,923 149,310	4,954,288 26,439,641 56,608 296,091 268,794 1,307,110	9,548,684 49,775,422 163,753 771,657 504,272 2,506,282	77.9 79.4 80.7 66.7 91.5	2.704,278 12,878,091 39,070 385,926 46,666 89,132	1,076,000 5,187,000 60,295 312,016 37,865 181,461	877,565 4,024,178 -7,162 174,589 -60,339 -395,754	1,626,567 2,162,393 89,259 243,241 —66,479
Now York, Susquehanna & Western. May Norfolk & Western. May Smos. Norfolk Southern. Smos.	120 120 2,129 2,129 683 683	312,749 1,659,273 14,860,220 67,046,536 675,925 3,493,501	39,954 212,622 427,717 2,350,285	361,490 1,932,247 15,885,998 72,484,155 696,899 3,616,823	47,602 240,065 2,047,123 9,652,235 156,897 687,830	56,775 273,097 3,824,140 16,159,278 93,738 454,864	6,285 31,705 298,520 1,367,889 45,966 218,730	162,536 876,506 4,574,277 22,384,438 235,183 1,209,078	294,346 1,556,335 11,297,146 52,310,877 592,952 2,870,288	81.4 80.5 71.1 72.2 85.1	67,144 375,912 4,588,852 20,173,278 103,947 746,535	29,908 154,394 2,464,434 11,382,688 43,157 395,087	10,381 80,285 2,881,576 12,476,538 41,683 249,060	73,382 110,795 4,427,480 13,554,286 59,562 250,294
Northwestern Pacific. May Northwestern Pacific. 5 mos.  Oklahoma City-Ada-Atoka. 5 mos. May	6,889 6,889 331 132 132	10,604,519 49,239,366 681,408 2,938,092 79,073 423,414	612,435 2,738,296 1,462 20,608	12,149,180 56,481,963 705,189 3,075,294 80,112 427,623	2,485,255 11,885,925 183,407 911,637 23,954 97,276	2,497,206 12,521,775 88,908 427,005 3,145 21,737	282,275 1,331,547 5,192 23,417 1,637 7,817	4,533,689 23,423,630 336,060 1,572,183 25,838 111,080	10,426,247 52,262,199 626,827 3,001,430 58,281 256,445	85.8 925.5 88.9 72.7 60.0	1,722,933 4,219,464 78,362 73,864 21,831 171,178	1,170,449 5,690,886 37,724 183,835 7,000 65,261	873,149 —131,461 —21,259 —328,178 5,503	1,548,299 4,434,183 56,591 18,923 9,144 38,084
PennsylvaniaMay 5 mos. Long IslandMay	10,142 10,142 376 376	59,194,558 287,699,544 1,134,681 5,496,082	11,771,134 64,319,146 3,025,938 13,022,844	77,974,103 385,921,829 4,350,170 19,461,650	10,488,556 47,598,305 479,741 2,799,654	17,113,301 83,702,461 670,449 3,854,240	1,282,895 6,311,278 13,928 180,217	33,349,851 172,198,738 2,230,455 11,363,336	65,033,778 324,772,601 3,503,182 19,171,335	83.4 84.2 80.5 98.5	12,940,325 61,149,228 846,988 290,315	5,876,710 32,210,014 449,181 2,296,881	5,210,287 20,644,897 155,599 —3,321,953	6,236,417 6,583,455 -306,556 -3,792,100

	Av. mileage					1	Operating Expenses	868			Net		Net railway	ay
Pennsylvania-Reading Seashore LinesMay Pittaburg & ShawmutMay Sittaburgh & West VirginiaMay 5 mos.	operated during period 386 97 135 135	Freight 484,40 2,389,11 240,37 962,39 621,86 621,86 3,382,81	Operating revenues -  Passenger (in 215,618 3 381,448 3 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Total c. misc.) 721,257 390,665 241,284 967,169 638,069	Maintenance of Way and Full 229,384 11,659,101 97,175,680 28,175,680 26,37,595 663,795 663,795	Equip- Equip- ment 197,727 973,101 41,687 203,759 157,161 698,900	Traffic 11,637 52,413 2,816 18,691 43,185 209,892	Trans- portation 548,741 2,788,365 61,300 276,249 180,304 900,555	Op Total 1,012,418 5,028,278 169,256 715,123 566,818 2,643,880	Operating ratio 140.4 140.4 70.1 70.1 73.9 88.8 88.8	railway operation t —291,161 —1,637,613 72,028 252,046 71,251 840,521	Railway tax accruals 90,667 449,771 30,709 97,603 57,411 434,257	1949 1949 -2,660,714 158,980 81,902 623,621	1948 1948 1,853,320 59,251 169,911 725,094
Reading	1,324 1,325 118 118 407	9,268,977 43,868,099 1,285,813 6,446,067 373,462 1,740,717	640,584 3,327,060 459,863 2,808.678 26,147 148,745	10,386,089 49,767,581 1,974,707 10,458,856 476,628 2,261,330	1,810,605 8,180,321 276,697 1,687,895 74,845 436,714	2,023,055 9,994,092 310,040 1,677,551 74,870 480,045	141,257 663,207 21,244 109,255 14,145 74,024	4,007,831 23,162,949 787,841 4,529,243 241,701 1,292,691	8,299,014 40,580,714 1,526,849 8,685,547 423,252 2,372,799	79.9 81.5 77.3 83.0 88.8	2,087,075 9,186,867 447,858 1,773,309 53,376 —111,469	1,018,408 4,617,064 214,804 909,400 25,911 150,172	1,076,450 4,251,184 134,885 388,699 9,177	1,382,907 4,606,934 201,602 1,190,386 23,315 —58,736
St. Louis, San Francisco & Texas	271 271 4,644 4,645 159 159	143,618 728,663 7,110,169 36,633,038 350,489 1,707,641	531,151 2,842,673 6,577 54,093	147,606 755,294 8,260,590 42,604,703 375,078 1,854,347	72,286 441,801 1,548,432 7,502,828 91,488 291,202	16,849 99,951 1,540,681 7,529,172 35,421 166,322	2,327 10,607 232,639 1,200,760 16,183 82,272	69,354 328,608 3,407,884 17,858,359 150,634 801,623	169,929 925,615 7,119,657 36,114,394 304,079 1,393,677	115.1 122.6 86.2 84.8 81.1 75.2	—22,323 —170,321 1,140,933 6,490,309 70,999 460,670	12,358 64,528 653,674 3,544,269 15,983 127,945	—45,481 —288,288 468,156 2,958,806 4,154 141,566	-45,646 -268,983 667,444 3,221,939 33,516 147,612
St. Louis Southwestern	1,569 1,569 4,151 4,153 6,411	4,265,461 23,806,791 8,556,174 45,397,807 14,678,591 76,513,942	62,280 293,864 1,003,749 7,584,622 1,503,625 7,453,422	4,500,813 24,961,295 10,244,470 56,874,891 17,571,900 90,610,622	793,682 3,215,457 1,739,889 9,368,367 2,558,622 13,786,493	644,781 3,382,496 1,911,023 10,130,303 3,225,188 17,410,758	144,687 709,149 318,490 1,633,530 373,138 1,835,327	1,504,584 8,286,854 3,891,108 21,638,571 7,074,012 35,774,767	3,259,555 16,455,886 8,326,197 45,493,617 13,930,120 72,667,515	72.4 65.9 81.3 80.0 79.3	1,241,258 8,505,409 1,918,273 11,381,274 3,641,780 17,943,107	544,245 3,497,191 950,617 5,271,615 1,736,959 8,451,813	524,803 3,923,256 812,266 4,930,425 1,749,481 8,149,861	780,298 4,836,727 1,203,903 5,892,432 2,598,976 11,600,593
Alabama Great Southern	316 316 337 337 397	1,157,854 5,770,848 2,861,110 14,083,712 449,315 2,422,008	94,855 490,779 234,747 1,033,784 109,777 470,746	1,366,708 6,771,209 3,256,894 15,953,415 603,261 3,180,792	186,290 1,022,317 396,871 2,042,961 144,616 712,615	302,475 1,432,976 500,649 2,908,211 76,402 300,351	30,663 150,814 64,125 299,762 7,174 36,636	483,061 2,392,085 1,001,798 4,895,842 1,675,844	1,054,593 5,272,180 2,048,840 10,687,693 428,567 2,210,818	77.2 77.9 62.9 67.0 61.0	312,115 1,499,029 1,208,054 5,265,722 174,694 696,974	169,808 894,911 583,282 2,608,099 47,252 273,433	134,387 722,953 660,246 2,925,278 50,426 288,081	245,653 975,730 755,505 3,353,457 56,266 240,736
New Orleans & NortheasternMay Southern Pacific	204 204 8,171 8,172 4,316 4,316	749,102 3,698,959 28,896,391 135,271,026 8,267,906 41,597,632	55,777 285,458 3,036,245 16,331,066 655,428 3,566,953	853,508 4,231,736 34,441,691 163,543,695 9,525,168 48,220,164	180,205 747,626 4,487,803 22,370,198 1,518,396 7,535,603	63,468 416,981 7,145,797 34,068,287 1,406,180 7,214,735	18,071 94,373 734,367 3,618,914 237,263 1,099,535	223,755 1,031,983 14,792,040 70,161,273 3,606,141 18,838,260	523,727 2,489,999 29,019,813 139,834,284 7,207,918 37,075,800	61.4 58.8 84.3 85.5 75.7	329,781 1,741,737 5,421,878 23,709,411 2,317,250 11,144,364	153,262 778,664 2,707,165 13,529,616 1,012,223 4,825,144	129,354 724,672 1,413,069 6,311,171 857,632 4,050,229	230,930 1,608,182 1,567,979 12,724,538 1,260,162 6,232,383
Spokane, Portland & Seattle	945 945 286 286 8	1,788,160 8,428,211 329,923 1,781,422 87,577 467,197	70,923 415,620 1,905 13,437	1,977,435 9,407,556 349,454 1,892,994 104,173 545,463	570,490 2,045,744 69,628 329,383 4,537 24,279	227,013 1,157,586 54,633 273,990 9,546 40,555	19,440 109,516 9,751 49,270 195 2,011	670,953 3,591,577 129,036 784,877 29,192 147,906	1,563,615 7,342,095 279,973 1,525,852 49,091 245,267	79.1 78.0 80.1 80.6 47.1 45.0	413,820 2,065,461 69,481 367,142 55,082 300,196	146,225 781,393 25,905 132,351 16,209 97,598	182,251 785,683 22,459 109,809 21,387 136,135	401,348 658,275 130,677 —39,324
Texas & Pacific.  Texas-Mexican.  Toledo, Peoria & Western.  Smos.  May  Toledo, Peoria & Western.  Smos.	1,854 1,854 162 162 239 239	4,320,165 22,420,231 207,059 1,195,316 380,517 1,919,966	378,411 2,068,895  47	5,167,256 26,606,798 231,855 1,318,912 387,559 1,948,756	745,945 3,620,245 50,756 241,716 87,754 346,067	836,141 4,211,266 23,778 125,439 25,936 131,803	168,486 833,151 6,453 29,983 37,827 168,203	1,930,887 10,702,448 64,449 356,539 101,991 508,047	3,971,025 20,839,891 159,366 826,770 276,553 1,276,775	76.8 78.3 68.7 71.4 65.5	1,196,231 5,766,907 72,489 492,142 111,006 671,981	455,769 1,922,117 37,548 193,080 44,674 267,554	556,334 2,706,926 15,743 204,332 44,006 294,405	728,258 3,153,920 15,768 176,920 46,203 273,974
Union Pacific. May Utah. 5 mos. Utah. 5 mos. Virginian. May	9,726 9,727 111 111 663 663	26,315,157 122,594,753 96,572 786,548 3,489,576 15,310,628	2,707,332 11,473,616 4,206 19,976	31,757,314 147,088,619 96,616 788,055 3,614,035 15,881,816	6,605,978 26,700,600 27,128 151,330 457,066 1,963,049	6,125,076 29,714,668 56,148 268,202 857,615 3,976,869	816,264 4,040,466 592 3,563 43,006 202,758	11,360,367 59,844,707 47,126 375,231 758,037 3,662,560	26,772,157 129,807,537 138,375 836,716 2,190,462 10,197,825	84.3 88.3 143.2 106.2 60.6 64.2	4,985,157 17,281,082 41,759 —48,661 1,423,573 5,683,991	3,353,549 14,481,491 13,140 67,449 654,000 2,631,500	481,710 -2,086,772 -47,028 -99,706 958,748 3,714,784	1,378,752 8,670,398 33,090 —36,856 1,115,481 2,755,411
Wabash	2,393 2,393 294 294 836 836	6,294,454 31,902,073 620,644 3,107,630 3,594,599 18,108,327	383,625 1,905,175 2,938 12,840 9,672 49,469	7,558,618 36,749,394 637,082 3,174,615 3,705,986 18,911,138	1,254,154 5,678,586 93,742 414,987 530,829 2,434,391	1,085,500 5,567,443 103,038 555,842 802,782 3,758,611	253,290 1,287,144 17,091 109,872 70,153 357,579	3,219,602 16,301,700 266,890 1,442,959 1,091,227 5,651,727	6,154,477 30,385,820 495,627 2,600,378 2,629,613 12,984,733	81.4 82.7 77.8 81.9 71.0 68.2	1,404,141 6,363,574 141,455 574,237 1,076,373 6,016,405	2,646,770 66,594 278,166 543,000 2,888,000	643,512 2,153,319 2,153,319 230,891 663,095 3,561,436	866,304 4,720,569 79,233 263,650 920,551 3,154,021
Western PacificMay  Wheeling & Lake ErieMay  Wisconsin CentralMay  5 mos  May	1,195 1,195 506 506 1,051 1,051	3,474,276 15,062,231 2,914,841 13,900,191 2,150,797 10,367,633	241,768 1,088,618 ii 56,019 202,763	3,825,601 16,611,671 3,094,966 14,526,301 2,349,077 11,169,146	682,176 2,697,690 492,426 1,910,262 356,125 1,480,204	2,924,524 496,512 2,378,984 306,531 1,750,932	187,288 828,715 63,334 329,704 62,143 299,972	1,274,569 6,209,883 914,748 4,387,786 934,352 4,960,048	2,962,301 13,760,509 2,048,751 9,432,825 1,743,490 8,912,710	77.4 82.8 66.2 64.9 74.2 79.8	863,300 2,851,162 1,046,215 5,093,476 605,587 2,256,436	373,916 1,318,630 588,219 2,748,178 137,779 698,570	394,697 1,239,753 683,074 3,338,161 345,144 909,968	501,286 1,525,904 847,370 3,149,807 389,413 1,342,575

### Freight Operating Statistics of Large Steam Railways — Selected

				Locomo	tive-miles	Car	-miles	Ton-mile	s (thousan	ds)	Road-loc	os. on lin	ies
	Hugian good and sees	Miles of		Principal	ì	Loaded			Net		iceable		Doz cont
	Region, road and year	road	Train- l miles	and helper	Light	(thou- sanda)	loade		. rev. and s non-rev.		d Stored	B.O.	Per cent B.O.
	Boston & Maine1949	1,746 1,746	282,556 295,826		15,874 14,055	11,412 12,024	67.7	713,365 737,407	288,334 310,177	102 95	13	12 17	9.4 14.7
2	1948 N. Y., N. H. & Htfd 1949 1948	1,774 1,815	276,493 335,311	278,141 338,705	20,341 27,219	11,619 13,686	68.1	703,591 803,281	304,537 359,276	111 142	10 16	14 31	10.4 16.4
	Delaware & Hudson 1949	794	250,219	299,859	31,690	11,080	0 68.7	760,139	389,332	121	55	23	11.6
	Del., Lack. & Western1949	794 967	259,997 282,079	319,533		11,483 12,333		781,248 827,644	410,254 374,135	125 105	37 23	24 16	12.9 11.1
	Erie	$\frac{970}{2,231}$	298,575 583,550		36,049 40,989	13,383 30,562		869,217 1,927,926	395,634 794,157	100 195	25 71	23 33	15.5 11.0
Romina	Grand Trunk Western1948	2,229 971	646,568 237,099	680,021	52,033 2,286	34,743 8,024	67.1	2,227,018 529,577	941,295 218,425	247 57	54	74	19.7 9.0
		972 1,239	249,732 244,941	252,764	2,178 28,674	8,739	67.4	551,553 791,784	230,207 369,908	65 70	iå	10 20	13.3 18.5
Labor	New York Central 1948 1949	1,239	259,811		43,759 196,984	12,632 107,179	69.8	844,747 7,548,740	410,329	1,001	3 146	32 298	23.0 20.6
0	New York, Chic. & St. L 1949	10,704	2,791,117	2,989,295	198,146	108,687	65.1	7,192,185	3,241,173	1,071	114 29	312 15	20.8
Č	1948 Pitts. & Lake Erie	1,656	554,681 560,674	572,100	5,211 7,330	22,246 24,523	70.7	1,480,384 1,505,862	610,587 656,663	135 137	12	19	8.4 11.3
	1948	221 223	90,340 69,410	69,682	100	3,878 3,326	71.1	333,704 273,784	202,500 167,651	34	1	14	28.6 23.9
	Wabash1949 1948	2,381 2,381	561,855 575,378	569,423 584,053	9,413 13,587	19,572 21,865		1,241,730 1,376,042	520,257 595,818	156 148	16 18	33 37	16.1 18.2
	Baltimore & Ohio	6,086 6,076		2,253,266 2,075,858	247,996 240,655	66,725 63,054		5,051,084 2 4,454,433 2		765 828	57	266 310	24.4 27.0
Region	Central of New Jersey*1949	415 418	65,890 75,746	66,110	5,585	2,583	66.2	188,426 218,252	97,178 118,731	34 50	5	7	15.2 20.3
Rec	Central of Pennsylvania	212	68,804	78,789 74,614	6,582 10,891	3,062 2,614	66.6	192,232	101,926	30	5 3	14	28.6
ern u	Chicago & Eastern III1949	213 909	73,215 121,650	83,180 121,868	14,397 2,521	2,902 4,449	68.6	208,909 291,232	112,075 137,839	44 32	22	12 7	20.3 11.5
Eastern	Elgin, Joliet & Eastern	909 238	153,401 94,561	154,392 95,044	3,088	5,082 3,456	65.1	337,228 269,470	160,254 144,966	51 38	2	19	27.1 7.0
	Pennsylvania System1949	391 10,039	101,388 3,189,456	105,253 3,557,943	3,265 413,654	3,441 129,900	68.9 61.9		141,674 ,560,444	1,479	5 98	333	3.9 17.4
Central	Reading	10,023 1,323	2,989,347 373,068	3,389,132 390,543	460,666 29,319	129,919 14,027	66.5 63.9	1,097,041	,207,826 589,804	1,798 167	53 49	286 29	13.4 11.8
O	Western Maryland	1,350 837	398,216 188,659	425,151 235,739	43,391 35,236	14,709 6,844	67.6 62.5	1,095,415 569,108	599,438 316,973	212 152	13 14	37 10	14.1 5.7
	1948	837 5,031	167,394 1,483,379	196,385	28,320 72,341	5,819	66.3 57.2		253,424	155 554	2 24	13 124	7.6 17.7
800	Chesapeake & Ohio	5,003	1,123,239		52,521	49,466 36,210	64.3	3,776,336 2	,106,965	582 266	15	95 24	13.7
-	1240	2,107 2,107	765,714 586,783	633,067	57,467 48,265	27,339	61.5	3,221,596·1 2,253,157 1	,222,659	269	28	29 81	7.3 8.9
	Atlantic Coast Line1949	5,542 5,552	939,033 985,629	948,970 1,003,418	14,302 17,234	24,240 27,172	59.8 62.9	1,672,537 1,819,150	700,833 792,435	374 359	16	79	17.2 18.0
-	Central of Georgia	1,783 1,783	276,023 296,856	279,893 304,431	3,608 5,413	6,753 7,908	69.1 74.6	446,700 506,240	204,842 248,048	103 88	5	10	5.4 9.7
Region	Gulf, Mobile & Ohio	2,854 2,847	302,967 336,736	302,967 338,874	213 494	14,049 16,102	70.8 72.8	912,514 1,033,324	424,835 499,280	79 118	27 12	18	2.8 12.2
	Illinois Central	6,552 6,581	1,377,305 1,264,798	1,274,831	48,618 43,797	47,750 50,741	61.7 67.5	3,405,869 1, 3,466,766 1,	,677,983	568 568	15 9	79 80	11.9 12.2
Southern	Louisville & Nashville	4,765 4,750	1,264,590 1,265,832	1,372,802	36,457 38,967	34,247 34,008	60.6 69.3	2,567,606 1, 2,338,242 1,	219,747	384 404	30	63 70	13.2 14.7
out	Nash., Chatt. & St. Louis1949 1948	1,051 1,051	223,483 249,478	228,887 261,867	4,356 7,406	6,287 6, <b>5</b> 21	71.2 78.9	402,729	187,558 195,690	74 79		14	1.3 15.1
02	Seaboard Air Line	4,142	806,359 811,164	858,146 863,552	12,464 10,757	23,477 25,690	58.8 66.0	1,745,982	699,054 773,474	268 289	iò	40 51	13.0 14.6
	Southern	6,382 6,449	1,370,729 1 1,532,936 1		17,759 24,107	38.741 439068	63.8 70.5	2,574,570 1, 2,677,270 1,	108,809 198,780	400 563	87 25	146 97	23.1 14.2
	Chicago & North Western1949	8,073	854,843 924,003	882,195 971,623	20,217 22,020	27,279 32,60 <b>6</b>	63.5 66.8	1,927,596	832,010 994,483	333 357	57 30	87 101	18.2 20.7
-	Chicago Great Western	8,055 1,445	160,019	160,651 201,871	7,492 10,511	7,669	65.3	506,911	214,467 246,006	53 46		11	17.2 29.7
Region		1,445 10,663		,290,674	46,784	8,601 41,348	68.8	2,818,649 1,	248,968	437	87 71	22 75	12.5
H H	Chic., St. P., Minn. & Omaha 1949	10,663 1,606	1,263,390 1 164,136	167,743	51,614 6,326	42,554 4,347	66.3		124,592	458 64	16	85 37	13.8 31.6
ate.	Duluth, Missabe & Iron Range . 1948	1,606 575	187,172 138,053	199,270 138,922	12,114	5,145 7,161	69.4 50.8	707,057	148,599 120,963	69 40		1	36.9 2.4
hwe	Great Northern	569 8,222	140,593 915,541	141,251 913,966	$\frac{1,122}{39,132}$	7,111 38,518	51.6 65.6	660,336 3 2,842,693 1,4	397,083 114,486	42 333	67	53	4.5 11.7
Northwee	Minneap., St.P. & S. Ste. M 1949	8,237 4,179	945,006 394,050	941,968 403,443	36,758 7,031	38,571 11,913	64.4	2,721,211 1,3 806,610 3	33,365 372,394	337 115	75	64 19	13.4 14.2
	Northern Pacific	4,180 6,593	386,296 732,855	941,968 403,443 396,663 769,381	9,943 36,789	12,015 28,659	67.8 69.0	2,842,693 1,4 2,721,211 1,3 806,610 3 795,305 3 1,962,127 9	377,683 13,390	126 307	40	21 57	14.3 14.1
(	Atch. Top & S Fe (incl. 1949 1	6,613	150,211	190,028	44,194 100,684	29,710 92,166		1,959,741 9 6,273,783 2,4	,0	308 647	166	49 118	11.8 12.7
Region			2,441,215 2, 2,927,775 3, 1,051,118 1,		134,231 33,959	106,014 41,416	64.0	7,202,783 2,8 2,823,791 1,2	323,841	724 345	92	141	14.7 21.2
Rep	Chic., Rock I. & Pac 1949	8,670 7,589	1,128,053 1, 1,116,533 1, 1,149,913 1, 313,459 287,513 1,829,017 1,	149,584	35,990 13,734	48.220	66.2	3,236,162 1,4 2,482,781 1,0	71,657	419 267	36 36	95	17.3 16.1
estern	Denver & R. G. Wn	7,618	1,149,913 1,	184,050	13,633 40,759	35,778 39,371 11,492	62.7 71.2	2,653,968 1,1 787,209 3	26,541	294 123	19 37	69	18.1 22.0
West	Southern Pacific	2,440 2,443 8,089	287,513	322,954	38,213 308,033	10.888	75.1	727,911 3 5,226,304 2,0	68,313	146 710	40	39	17.3 18.4
	1948	8,106	1,943,192 2,	154,531	354,578 137,575	76,437 79,932	65.3	5.404.096 2.1	90.479	684	29	184	20.5 22.4
Central	Union Pacific	9,727 9,751	1,943,192 2, 1,891,895 1, 1,898,023 1, 198,943	983,201	164,008	77,459 79,860	66.0 5 73.2	5,347,962 2,3 5,404,851 2,3 535,877 2,3	28,095 43,588		185 45	96	12.5 16.8
P. 6	1948	1,192	190,529	204,009	19,808 15,408	8,477 8,192	76.8	494,953 2	27,372	58	46	17	14.0
	1948	1,110 1,110	301,634	217,921 302,814	1,562 $1,127$	6,684 7,856	62.1 62.4	544,485 2	95,412 25,754	70 78	3	5	6.4 3.7
Hon	Kansas City Southern1949 1948	886 885	184,909 181,622	188,721 182,013	1,978 802	8,569 8,791	63.8 68.2	616,557 2 599,534 2	89,467 83,378	45 40	11	5	9.3 8.9
Region	MoKansTexas Lines1949 1948	3,241	428,257 493,155	434,635 502,300	7,123 8,433	13,748 16,381	62.9 63.9	925,693 4 1,071,363 4	01,858 63,199	101 113	17 10	35 30	22.9 19.6
2	Missouri Pacific*1949	6,987 6,986	1,239,252 1, 1,389,010 1,	266,478 430,488	23,918 29,383	41,854 50,675	63.5 2	2,869,720 1,2 3,409,436 1,4	38,343	371 428	34	56	12.1 11.4
- Set	Texas & Pacific	1,852 1,852	338,716	338,716 571,895	8,409 13,974	11,945	62.2	819,567 36	09,755	110 120	16	6 12	4.5 9.1
thy	St. Louis-San Francisco1949	4,614 4,615	680,499	588.424	7,759	21,076	62.1 1	,463,586 63	38,724	248 298	38		16.4 9.3
02	St. Louis Southw. Lines 1949	1,562 1,568	852,413 4 344,089 3 402,112 4	382,756 345,080 102,792	4,709	13,265	63.1	837,203 37	4,242	81 85	11 7	13	12.4
	Texas & New Orleans1949	4,314 4,314	744,607	744,613 929,189		22,684	65.4 1.	,554,245 66	8,324 2	207 220	4	42	16.6
	1940	2,012	220,100	27,107	21,201	20,120	JU.U 1	.,,	.,021			-	

## Items for the Month of April 1949 Compared with April 1948

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	•		Freight c	ars on line		G.t.m.per	G.t.m.pe train-mi.		Net ton-mi.	Net ton-mi.	Car miles	Net daily	Train- miles	Mi.
	Region, road and year				Per Cent.	excl.locos.			per l'd.	per car-	per car-	ton-mi.	per train-	loco.
		Home	Foreign		<b>B.</b> O.		tenders 2,530	mile 1,022	mile 25.3	day 885	day 51.8	road-mi. 5,505	hour 15.8	day
	Boston & Maine	2,948 2,074	8,070 9,961	11,018 12,035 16,496	$\begin{array}{c} 2.7 \\ 3.1 \\ 2.0 \end{array}$	38,113 37,832	1,050 2,551	1,050 1,104	25.8 26.2	849 594	46.4	5,922 5,722	15.3 14.9	87.2 98.2 75.9
	N. Y., N. H. & Htfd1949	2,241 1,481	14,255 17,302	18,783	2.0	34,182	2,401	1,074	26.3	606	31.9	6,598	14.3	71.4
	Delaware & Hudson1949 1948	5,505 2,658	5,696 6,569	9,227	4.6	53,049	3,055 1,586	1,565 1,586	35.1 35.7	1,177 1,449	48.8 57.5	16,345 17,223	18.0 17.7	59.4 65.5 91.1
	Del., Lack. & Western1949 1948	7,358 5,159	9,645 11,608	17,003 16,767	5.2 5.5	43,821 43,485	2,984 2,967	1,349 1,351	30.3 29.6	739 790	36.5 38.1	12,897 13,596	14.9	93.0
	Erie	13,601 7,169	16,730 23,199	30,331 $30,368$	7.6 4.3	54,752 55,983	3,327 3,468	1,370 1,466	26.0 27.1	902 1,044	51.9 57.4	11,865 14,076	16.6	74.2 72.4 129.8
	1948	5,176 4,459	7,543 9,433	12,719 $13,892$	9.1 6.1	45,434 42,839	2,251 2,219	928 926	27.2 26.3	602 548	34.3	7,498 7,895	20.3 19.4	124.7 99.2
,	Lehigh Valley	9,100 6,82 <b>5</b>	9,535 13,133	18,635 19,958	10.1 8.4	58,503 53,659	3,297 3,328	1,540 1,617	32.4 32.5	657 672	30.7 29.7	9,952 11,039	18.1 16.5	80.4 86.4
	New York Central	77,347 57,926	83,645 104,544	160,992 162,470	6.2 3.7	42,516 39,622	2,524 2,609	1,153	32.2 29.8	741 690	37.4 35.5	10,747	17.1	80.4 113.0
(	New York, Chic. & St. L 1949 1948	4,790 3,323	10,355 13,509	15,145 16,832	3.7 1.6	55,033 51,659	2,714 2,698	1,119	27.4 26.8	1,315 1,373	74.4	12,290 13,218	20.6 19.2 14.7	122.3 72.4
	Pitts. & Lake Erie	6,780 4,303	9,862 $12,707$	16,642 17,010	7.5	54,182 51,318	3,706	2,249	52.2 50.4	395 334	9.3	30,543 25,060	13.0	53.6 99.3
	Wabash1949 1948	7,903 5,957	10,723 $13,641$	18,626 19,598	$\frac{3.5}{3.4}$	47,405 47,316	2,226 2,411	933 1,044	$\frac{26.6}{27.2}$	937 1,014	51.5 52.7	7,284 8,341	21.4 19.8	102.7
	Baltimore & Ohio	62,349 44,050	43,835 44,782	106,184 88,832	9.1 7.4	35,667 33,160	$\frac{2,789}{2,702}$	1,393 $1,333$	37.8 34.9	822 811	34.9 34.8	13.812 12,056	$13.0 \\ 12.5$	78.5 70.0
	Central of New Jersey*1949   1948   Central of Pennsylvania1949   1948	1,013 716	8,307 9,407	9,320 $10,123$	6.7 5.4	40,314 39,296	2,958 2,966	1,526 1,61	37.6 38.8	349 376	$14.0 \\ 14.1$	7,805 9,468	$14.1 \\ 13.6$	84.6 71.5
9		1,793 $1,373$	3,517 3,476	5,310 4,849	8.9 9.4 7.1	39,327 39,611	3,006 3,010	1,594 $1,615$	39.0 38.6	645 781	24.8 29.6	16,026 $17,539$	14.1 13.9	68.4 69.2
	Chicago & Eastern III1949 1948	3,214 2,234	3,403 4,053	6,617 6,387	7.1 5.1	41,398 38,096	$2,401 \\ 2,239$	1,136 1,064	$\frac{31.0}{31.5}$	697 821	32.8 37.6	5,055 5,877	17.3 17.3	70.6 79.7
5	Elgin, Joliet & Eastern 1949 1948	7,013 6,673	10,092 9,680	17,105 16,353	2.4 1.6	21,599 18,672	$\frac{3,002}{2,695}$	1,615 $1,473$	41.9	269 274	9.9 9.6	20,303 12,078	7.6 7.3	97.8 <b>9</b> 3.0
3		147,635 122,063	94,531 119,622	242,166 241,685	9.1 9.2	43,635 39,102	3,104 3,045	1,479 1,448	35.1 32.4	633 582	$\frac{29.1}{27.0}$	15,142 13,994	14.5 13.2	74.8 65.7
	Reading1949	16,325 9,932	16,054 20,076	32,379 30,008	6.0 4.8	38,186 32,703	2,941 $2,760$	1,581 1,510	$\frac{42.0}{40.8}$	596 646	22.2 23.5	14,860 14,801	13.0 11.9	67.2 70.8
	Western Maryland	5,621 4,169	2,804 3,822	8,425 7,991	1.5 1.7	41,141 29,328	3,058 2,804	1,703 1,553	46.3 43.6	1,108	38.3 34.4	12,623 $10,093$	13.6 10.7	55.1 48.1
d	Chesapeake & Ohio1949	62,265 49,790	25,520 30,011	87,785 79,801	3.0 1.9	61,868 49,357	3,900 3,408	2,166 1,902	47.6 42.6	1,194 850	43.8 31.0	21,085 14,038	16.0 14.7	83.3 64.9
Dog	Norfolk & Western1949	33,750 29,728	6,675 7,225	40,425 36,953	4.6	69,528 60,522	4,269 3,890	2,348 2,111	48.9 44.7	1,306 987	46.4 35.9	28,036 19,343	16.5 15.8	95.5 77.5
	Atlantic Coast Line1949	13,995	14,024	28,019	4.9	30,331	1,787	749	28.9	833	48.2	4,215	17.0	75.0
	Central of Georgia1949	9,722 3,277	22,199 4,052	31,921 7,329	5.4 7.9	27,429 29,870	1,855 1,623	808 744	29.2 30.3	880 868	48.0	4,758 3,830	14.9 18.5	84.8 88.0
9	Gulf, Mobile & Ohio	2,072 4,495	5,477 8,634	7,549 13,129	2.3	29,930 37,463	1,719 3,024	1,408	31.4 30.2 31.0	1,048	44.8 48.3 47.8	4,637 4,962	17.6 19.1 18.3	105.5 97.2 82.5
Region	Illinois Central	2,905 26,047	12,896 24,872	15,801 50,919	2.1	56,196 45,971	3,078 2,503	1,487 $1,155$ $1,345$	32.9 33.1	1,080 1,009 1,012	49.7 45.3	5,846 7,9 <b>9</b> 5 8,499	18.6 16.4	77.6 71.9
-	2	17,474 38,420	35,542 13,385	53,016 51,805	1.5 3.1	44,986 32,556 27,488	2,779 2,038	1,028 964	37.8 35.9	792 821	34.5 33.0	9,065 8,560	16.0 14.9	104.8 103.7
Southern	Nash., Chatt. & St. Louis 1949	27,724 3,018	16,257 3,853	43,981 6,871	3.3 11.9	36,042	1,847 $1,821$ $1,624$	844 789	29.8 30.0	916 1,028	43.1 43.4	5,949 6,206	19.9 18.3	111.5 100.0
or.	Seaboard Air Line1949	1,528 12,054	4,781 11,629	6,309 23,683	5.8 1.8	29,474 38,291	2,172 2,199	887 974	29.8 30.1	972 1,068	55.5 53.7	5,626 6,226	18.0 17.1	102.6 93.3
	Southern	7,286 17,991	18,263 27,630	25,549 45,621	1.2 3.9 4.7	36,872 33,603	1,895 1,773	816 794	28.6 27.8	803 920	44.0 46.8	5,791 6,196	17.9 17.2	77.8 82.5
	Chicago & North Western1949	14,041 23,617	30,427 23,744	44,468 47,391	2.9	29,988 35,555	2,350	1,014	30.5	597	30.8	3,435	15.8	69.4
a	Chicago Great Western1949	19,070 2,281	33,698 5,254	52,768 7,535	3.1 6.2	35,321 51,715	2,470 3,168	$1,120 \\ 1,340$	30.5 28.0	622 995	30.5 54.5	4,115	14.9 16.3	74.8 95.2
Region	Chic., Milw., St. P. & Pac 1949	1,487 $31,853$	4,821 24,874	6,308 56,727	3.8 1.4	45,718 37,132	2,764 $2,274$	1,219 $1,007$	28.6 30.2	1,353 721	68.8 37.0	5,675 3,904	16.5 16.4	98.9 80.4
n R	Chic., St. P., Minn. & Omaha 1949	23,688 1,040	35,811 5,982	59,499 7,022	2.0 4.3	35,542 24,211	2,246 1,754	995 766	29.3 28.7	689 599	35.4 30.9	3,903 2.586	15.9 13.9	79.8 55.3
ster		1.010 $14.754$	6,872 361	7,882 15,115	4.9 3.8	23,943 87,572	1,847 5,308	3,160	28.9 58.8	626 922	31.2 30.9	3,084 24,404	13.2 17.1	66.6 110.3
hwe	Great Northern	$14,514 \\ 26,301$	395 16,297	14,909 42,598	2.8 2.8	79,905 50,509	4,867 3,119	2,927 1,552	55.8 36.7	877 1,117	30.4 46.3	23,262 5,735	17.0 16.3	114.6 75.4
Northwe	Minneap., St.P. & S. Ste. M 1949	22,795 $7,371$	17,749 6,489	40,508 13,860	2.9 5.7	46,225 36,495	$2,890 \\ 2,059$	1,146 951	34.6 31.3	1,056 900	45.1 44.7	5,396 2,970	16.1 17.8	73.2 $112.0$
	Northern Pacific	7,103 21,687	9,871 $12,815$	16,974 34,502	7.8 6.8	34,760 45,274	2,080 2,689	988 1,252	31.4 31.9	767 870	36.0 39.6	3,012 4,618	16.9 16.9	103.4 72.1
_				33,746 84,095	4.6	44,685 52,476	2,605 2,582	1,253 1,002	31.7 26.4	900 1,006	39.2 59.5	4,752 6,196	17.2 20.4	71.8 101.1
Region	G. C. & S. F. and P. & S. F.) 1948	19,547	20,824	80,717 40,371	6.0 3.8	48,949 49,162	2,471 2,698	$\frac{969}{1,203}$	$\frac{26.6}{30.4}$	1,238 $1,035$	72.7 52.4	7,196 4,837	19.9 18.3	117.8 69.1
Re Re	Chic., Rock I. & Pac 1948	15,555 13,313	22,515	43,278 35,828	3.5 4.4	49,157 41.714	2,878 2,233	1,309 921	30.5 28.6	1,152 974	57.0 56.8	5,658 4,500	17.1 18.8	77.2 113.5
енвеги	Denver & R. G. Wn	10,006 8,531	25,176	35,182 12,694	4.3	41,009 43,121	2,314 $2,526$	$982 \\ 1,253$	28.6 34.0	1,091 965	60.8 39.9	4,929 5,336	$\frac{17.8}{17.2}$	108.7 66.7
=	Southern Pacific	7,738 28,014	6,739 36,039	14,477 64,053	3.4	43,450 47,251 46,722	2,555 2,387	1,293 1,159	33.8 27.5	916 1,107	36.1 62.9	5,025 8,647	17.2 16.5	56.2 89.2
Central	1948 2	24,673 30,995	39,241 28,902	63,914 59,897	3.5 4.0	61.324	2,802 2,867	1,136 1,236	27.4 29.8	1,208 $1,275$	67.6 66.1	9,008 7,899	16.8 21.7	98.8 90.4
Cen	Western Pacific	2,470	2,344	58,006 4,814	3.3 7.2	59,521 57,443	2,709	1,236 $1,231$	29.2 23.7	1,349 $1,745$	70.1 83.0	7,958 6,812	$\frac{20.9}{21.3}$	96.4 64.9
	International-Gt. Northern*1949	2,670 1,035	2,939 6,545	5,609 7,580	5.0	54,141 41,744	2,603 2,190	1,193 917	27.8 29.2	1,412 868	66.2 47.8	6,358 5,868	20.8 19.4	60.9 102.6
~	Kansas City Southern	469 1,814	7,520 6,329	7,989 8,143	1.1 3.9	32,800 64,225	1,832	759 1,571	28.7 33.8	979 1,227	54.6 56.9	6,779 10,890	18.2 19.3	132.3 125.5
Region	1948	1,189 4,765	5,595	6,784 12,069	3.8	64,976 41,690	3,313 2,176	1,566 945	32.2 29.2	1,386 1,171	63.0 63.6	10,673 4,133	19.7 19.3	118.3 97.2
	1918	2,403	8,296	10,699 36,107	.9 1.9	40,719 46,756	2,183	944 1,004	28.3 29.6	1,516 1,153	83.9 61.4	4,764 5,908	18.7 20.2	116.6
western	1948 1	5,743 2,454	24,722 5,580	40,465 8,034	2.1 5.4	44,713 52,496	2,466 2,427	1,051	28.7 25.9	1,222 1,247	66.5 77.3	6,932 5,575	18.2 21.7	105.5 97.3
	1948	1,510	8,197	9,707 23,022	2.4 3.0	41,220 38,141	2,173 2,153	854 942	28.4 30.3	1,577	94.4 48.7	8,711 4,614	19.1 17.7	155.9 7.5.5
Youth	1948	6,543	13,291	19,834	2.0 1.9	36,036 47,701	1,891	803	29.9 28.2	1,176 1,874	59.3 97.5	4,925 7,986	20.1 19.6	94.6 119.3
T.	1948	2,138 1,477 4,703	4,303 5,769	6,441 7,246 20,285	2.4 3.0	45,701 45,942 40,787	2,455 2,354 2,110	1,052	27.5 27.5	1,953 1,065	99.0 55.3	8,983 5,164	19.5 19.5 19.5	137.7 106.6
	1948	4,703 I 3,828 I	15,582 2 17,852 2	21,680	2.5	35,571	1,37)		23.3	1,295	60.4	5,852	19.7	133.3
* Re	port of trustee or trustees.													

<sup>\*</sup> Report of trustee or trustees.

Compiled by the Bureau of Transport Economics and Statistics, Interstate Commerce Commission. Subject to revision.

### **GENERAL NEWS**

### Radio-Rules Bill

(Continued from page 59)

ary 1, 1947, as compared with 1,975 miles 10 years earlier. The railroad presidents suggested that it was of "much interest to note that all installations of centralized traffic control were the result of voluntary action by the railroads." They found "also noteworthy" the fact that there were 4,503 interlocking devices in service on January 1, 1948, and "according to our information, only one" of them was installed as a result of an order by the commission.

Commenting on Mr. Patterson's statement that the commission has issued in the neighborhood of 10,000 orders with respect to block signals, Messrs. Gurley, Hill and White pointed out that the commissioner explained later in his testimony, "in answer to a question," that those orders were for the most part in response to applications of the railroads for authority to make changes in their existing signal installations. "It should be clearly understood," the presidents continued, "that the 10,000 orders were not requirements upon the railroads but merely approvals of what the railroads voluntarily proposed to do. During the entire period the [Signal Inspection] law has been in effect, the commission has found occasion in only a very few cases, not more than 27, to make any requirement concerning the installation of block signal systems." Meanwhile, they found the commissioner's reference to the 10,000 orders "interesting in focusing attention on the burdensome nature of the requirements in the present law . . .

The letter's final comment was on the commissioner's statement that safety legislation of the past "has in every instance proved to be not only of advantage to the carriers from a safety standpoint, but has also resulted in more efficient and economical operation." The presidents thought that statement overlooked the section 25 provisions relating to the installation of automatic train-stop and train-control devices which were enacted in 1920. At that time, they said, those devices were in an "experimental or development" stage, "much the same as the stage in which we find radio train communication today."

The commission, they added, nevertheless issued its 1922 and 1924 orders requiring 44 roads to install train-stop or train-control devices on one or more of their passenger locomotive divisions, the total road mileage involved having been 8,308. In 1928, "after full investigation of the operation of these installations," the commission decided against requiring any further installations, the presidents next pointed out. They quoted from that 1928 decision language they thought left a "necessary inference" that "the many millions of dollars which the railroads had been required to spend in the installation of automatic train-stop and traincontrol devices could have been spent in other ways which would have accomplished more in the interest both of safety and efficiency of railroad operation." Thus it seemed "clear" to Messrs. Gurley, Hill and White that "the 1920 legislation . . . was untimely and illadvised."

### I. C. Tells "Story of Busy Year" In Report to Its Employees

To show the employee the "whole forest" instead of the "separate trees surrounding his or her own job," the Illinois Central has published a 32-page, profusely illustrated booklet which recounts the railroad's accomplishments in 1948. The report tells its story in two parts—income and expenses—using dollars as the yardstick of progress.

The report shows, separately, the road's income from freight, passenger and other services, and its expenses chargeable to wages, taxes, interest on borrowed money and material, supplies and other services. Both the income and the expense dollar are pictorially divided into parts, each part representing the amount attributable to one of the aforementioned services or expenses. Graphs are employed to draw comparisons between the income and expenses of 1948 and those of the past 20 to 30 years.

### Freight Car Loadings

Loadings of revenue freight in the week ended July 9 totaled 595,321 cars, the Association of American Railroads announced on July 14. This was a decrease of 48,861 cars, or 7.6 per cent, under the previous week, a decline of 159,779 cars, or 21.2 per cent under the corresponding week last year, and a drop of 211,796 cars, or 26.2 per cent, under the equivalent 1947 week.

Loadings of revenue freight for the week ended July 2, 1949, totaled 644,182 cars, and the summary for that week as compiled by the Car Service Division, A.A.R., follows:

A.A.It., IOHOW	9.		
		CAR LOADING	
For the week	ended Satu	rday, July	2, 1949
District	1949	1948	1947
Eastern	110,788	132,138	102,982
Allegheny	116,263	159,823	127,150
Pocahontas	19,018	23,867	20,969
Southern	92,117	112,990	90,804
Northwestern	129,812	133,484	115,745
Central Western	118,424	130,454	112,098
Southwestern	57,760	64,522	59,456
Total Western			
Districts	305,996	328,460	287,299
Total All Roads	644,182	757,278	629,204
Commodities:	-		-
Grain and grain			
products	69,958	61,087	58,967
Livestock	7,470	7,893	9,253
Coal	. 23,177	56,773	32,753
Coke	9,465	11,939	8,523
Forest products	36,708	48,133	32,595
Ore	77,995	83,091	78,395
Merchandise l.c.l.	91,049	105,236	96,647
Miscellaneous	328,360	383,126	312,071
July 2	644,182	757,278	629,204
June 25	802,941	888,368	846,141
June 18	649,351	906,631	901,296
June 11	808,156	906,663	895,292
June 4	698,824	821,206	900,747
Cumulative total			
26 weeks	18,735,980	20,827,510	21,611,373

In Canada.—Carloadings for the week ended July 2 totaled 62,070 cars, compared with 75,352 cars for the previous week, and 71,064 cars for the corresponding week last year, according to the compilation of the Dominion Bureau of Statistics.

				Revenue Cars	Total Cars Rec'd from
				Loaded	Connections
Totals	for	Canad	a:		
July	2.	1949	***************************************	62,070	29,366
July	3,	1948	***************************************	71,064	33,468
Cumul	ativ	e total	s for Canad	a:	
July	2,	1949	*********	1,875,721	818,592
Inly	3	1948		1.934.305	918.326

### S. F., U. P., and Wabash Ask Authority to Pool L.C.L. Traffic

The Atchison, Topeka & Santa Fe, Union Pacific and Wabash have petitioned the Interstate Commerce Commission for authority to continue pooling merchandise traffic between St. Louis, Mo., and Los Angeles, Cal. Such an arrangement had been allowed by the former Office of Defense Transportation under Supplementary Order O.D.T. 1-2 since January, 1944, but this order was revoked April 16.

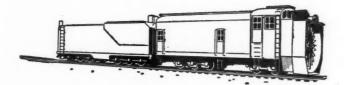
The application seeks approval of a proposed arrangement whereby the Wabash will load and forward merchandise cars from St. Louis to Los Angeles via Henrietta, Mo., or Kansas City, Mo., on six days of each week. The routes of movement of such merchandise would be alternated daily so that on three days of each week merchandise cars will be forwarded by the Wabash from St. Louis to Los Angeles via (a) Wabash to Henrietta, and Santa Fe to Los Angeles and (b) Wabash to Kansas City, and U. P. to Los Angeles.

The railroads' application said that the Wabash should be permitted to disrogard routing instructions when that is necessary to permit the forwarding of traffic in the first merchandise car departing from St. Louis to Los Angeles. Such pooling of merchandise, the application added, would be in the interest of better service to the public, would make for more economy in operations and would conserve equipment and not unduly restrain competition.

The commission has assigned the application for hearing on July 28 at U. S. Customs House, 610 South Canal street, Chicago, before Examiner Frank E. Mullen.

### Money for Retirement And Mediation Boards

Appropriations of \$882,741,000 for the Railroad Retirement Board and \$928,500 for the National Mediation Board and National Railroad Adjustment Board are provided by the so-called labor-federal security appropriation act for the fiscal year ending June 30, 1950, which has been signed by President Truman. The appropriation for the Retirement Board includes \$715,889,000 as the estimated fiscal 1950 tax collections under the Carriers' Taxing Act, and \$166,852,000 (to be paid over a five-year period) as the



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estimated total of military-service credits due the retirement fund under that provision of the Railroad Retirement Act which stipulates that such payments shall be made into the fund to maintain the benefit status of railroad empleyees who served in the armed forces,

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Appropriations to cover these military. service credits must come from the Treasury's general funds, and are thus in addition to the payroll taxes collected under the Carriers' Taxing Act. Recommending that the matter be handled on a pay-as-needed basis, President Truman's budget message contained no estimate for a fiscal 1950 appropriation for the military-service credits. The House accepted that recommendation, but the Senate included the appropriation with provisions calling for its payment into the fund over a period of four years. The payment period was extended to five years in the final version of the bill which was embodied in the conference report that reconciled the Senate and House versions. Since the Treasury is required to pay 3 per cent interest on the balance in the retirement fund, the effect of Congress' action in appropriating for the military-service credits on the accrual basis will be to augment the fund's interest earnings.

Meanwhile, Congress did adopt one of the budget's recommendations which called for provision of funds for the Retirement Board's administrative expenses by an allocation directly from the retirement account. Thus the amount expected to be required for fiscal 1950 administrative expenses - \$5,104,000 will come out of the \$715,889,000 appropriated to the account as the estimated total of fiscal 1950 payroll tax collections. Previous appropriations for the board's administrative expenses have been made from the Treasury's general fund, with subsequent reimbursement to that fund from the retirement tax collections. For its administrative expenses during the past fiscal year ended June 30, the board received appropriations totaling \$4,930,000, including a supplemental appropriation of \$500,000 carried in the so-called second deficiency appropriation act for fiscal 1949, which was also signed recently by the President. The administrative expenses here involved are those incurred by the board under the Railroad Retirement Act, for administration of the Railroad Unemployment Insurance Act the board receives directly a portion of the taxes collected under that act.

The \$928,500 provided in the labor-federal security act for the fiscal 1950 operations of the M-diation and Adjustment boards includes \$360,400 and \$468,100, respectively, for the operations of those boards and \$100,000 to pay the salaries and expenses of arbitration and emergency boards which may be set up during the year. For the past fiscal year ended June 30, N.M.B. and N.R.A.B. received a total of \$937,050, including a supplemental appropriation of \$74,500 carried in the second deficiency act mentioned above. This deficiency appropriation included \$36,900 for arbitration

and emergency boards (in addition to the original fiscal 1949 appropriation of \$100,000), and \$37,600 for Adjustment Board expenses, which brought the fiscal 1949 appropriation for that purpose to \$459,800.

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Another \$207,700 is proposed for the Adjustment Board in the third deficiency appropriation bill which has been passed by the House and now awaits action by the Senate. Although carried in this fiscal 1949 deficiency bill, the \$207,700 would actually be an additional appropriation for fiscal 1950. The report made on the bill by the House committee on appropriations explained that the money would be used to pay expenses of the two supplemental boards created recently, pursuant to a labor-management agreement, for the purpose of clearing up the backlog of grievance cases now pending before the Adjustment Board's First Division (see Railway Age of May 28, page 46).

"The division . . . ," the House committee's report continued, "has had a work backlog for several years which has been a source of threatened tie-ups of important railroads and a complicating factor in an otherwise comparatively peaceful labor relations situation in this field. Officials of the board testified that it might well be possible to bring the work of this division up to date within two years and in approving the full budget estimate the committee urges officials of the board to get the program under way with all possible dispatch and wishes to underscore the importance of winding it up at the earliest possible date. As a matter of fact, it probably should have been cleaned up by this time and the committee stands ready to give sympathetic consideration to any proposal to expedite the matter, A detailed report on the status of the program will be expected when the 1951 budget is considered."

### New York Central Issues New "Train Time-Guide"

A new "train time-guide" designed to make schedule reading easier for travelers between more than 40 leading cities in seven states and Canada is being issued by the New York Central. The guide contains 16 tables showing key trains operating between the cities. In most cases, the tables have no footnotes. When they do occur, there are never more than two. The two-color folder also features directions for its use; contains an index to the tables, and has illustrations of the various types of accommodations available for daytime and overnight trips.

### S.A.L.-L. & N. to Run New Jacksonville-New Orleans Train

Faster service and improved accommodations between Jacksonville, Fla., and New Orleans, La., will be offered beginning July 31 by a new train, "The Gulf Wind," under joint operation of the Seaboard Air Line and the Louisville & Nashville, Hours shorter than current

# Super-Clean Air all the way between Chicago and the Coast



DUST, dirt, lint and tobacco smoke can't ride the California Zephyr. Every car in this de luxe, streamlined train features Electro-Airmat filters as a part of its air-conditioning system.

Electro-Airmat is fast becoming a standard specification among those railroads who demand super-clean air at a saving. Here's why—

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service, the new train will save approximately five hours between the two gateways and 12 hours between South Florida cities and New Orleans. Convenient connections with streamliners will be made at both Jacksonville and New Orleans.

For the first time, bedrooms for single or double occupancy will be available along with berth and coach accommodations, lounge-car facilities and dining-car service for all meals. Completely refurbished, all cars will have distinctive exteriors of blue and gold.

exteriors of blue and gold.

"The Gulf Wind," carrying through equipment and making only principal stops, will replace one of two local trains now operating between Jacksonville and New Orleans. The other train will continue to offer daylight local service between the two points.

### Railroad Fair Is Well Attended Despite Rain and Heat Wave

A daily average of 20,000 paid customers visited the Railroad Fair at Chicago during its first 16 days, June 25 to July 10, inclusive, although 10 days were excessively rainy and the mercury climbed well above the 90-deg. mark on eight days. A respite from the heat wave, plus clear skies, combined to draw a 1949 record crowd of 43,308 visitors on Sunday, July 10. The total paid attendance figure as of that date was 327,336.

Descriptions of two feature attractions

at this year's Fair were inadvertently omitted from the Railway Age of July 2, which carried feature articles on the various attractions. They are the extremely popular "Old Corral" show of the Great Northern-Northern Pacific-Chicago, Burlington & Quincy and the dynamometer test car of the Illinois Central and the University of Illinois.

The rodeo presentation is a repeat feature from last year's Fair, offering cowboys and cowgirls in trick and fancy riding and roping, bulldogging, calf-roping, bronco-busting, Roman races and quadrilles on horseback. Complete new shows will be started on August 1 and 22. Performances are given every hour on the half hour daily from 10:30 a.m. to 9:30 p.m.

The dynamometer car is on the track exhibit at the south end of the fair grounds. It houses testing equipment consisting of gages, charts, paper tape and electrically controlled pens which make a continuous record of engine pull and other related data such as train speed, wind velocity, steam and air-brake pressure, fuel used and distance traveled.

### Emergency Board on M.P.

President Truman has appointed an emergency board to investigate a dispute between the Missouri Pacific and those of its employees who are represented by the four train-service brother-hoods, i.e., the Brotherhood of Locomo-

tive Engineers, Brotherhood of Locomotive Firemen & Enginemen, Order of Railway Conductors, and Brotherhood of Railroad Trainmen. The dispute involves grievance cases which are within the jurisdiction of the National Railroad Adjustment Board.

Members of the board are Curtis G. Shake, Roger McDonough, and Floyd McGown. They were scheduled to open hearings at St. Louis, Mo., on July 14.

### Uniform Pullman Service Contracts Signed by 42 Roads

As of June 27, 42 railroads had signed with the Pullman Company a uniform service contract and accompanying car lease, to become effective, subject to the approval of the Interstate Commerce Commission, on July 1, C. R. Harding, Pullman president, told members of the Purchases and Stores Division of the Association of American Railroads at the opening session of their annual meeting in Chicago on the former date.

These new contracts replace former uniform operating contracts which had been made effective between the Pullman Company and various railroads as of January 1, 1946, in accordance with the terms of a "memorandum agreement" of October 18, 1945. These interim contracts had been written to expire as of December 31, 1948, but " e extended by mutual agreement for six months to June 30, 1949 - while the new form of permanent contract was under consideration. A committee of seven railroad representatives, with accounting and legal subcommittees, participated in working out the new contract with the Pullman Company.

Mr. Harding also told the P. & S. Division that a total of 2,396 standard heavyweight sleeping cars and 152 tourist cars had been transferred from Pullman to railroad ewnership under the terms of the 1945 memorandum agreement. Most of these cars, however, will continue to be operated by Pullman under the car lease attached to the uniform contract.

The balance of Mr. Harding's address, as reported on page 121 of the Railway Age of July 9, was an analysis of the advantages of unified sleeping car service, as compared with separate operation by individual roads.

### President Would Repeal Tax on Freight Transport

Repeal of the tax on amounts paid for the transportation of goods was among recommendations made by President Truman in his Midyear Economic Report which was submitted to Congress on July 11. The tax, which is levied on freight charges paid to all agencies of for-hire transportation, is 3 per cent of such charges except in the case of coal where it is 4 cents per short ton. In 1948, the tax yielded about \$339 million.

It "should be eliminated," the President said, because it "enters directly into such a large number of business costs." Meanwhile, his message made no



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reference to the 15 per cent tax on fares, the repeal or reduction of which is proposed in several bills now pending in Congress. Proposed legislation to repeal the freight tax is also pending.

Other recommendations of the President's message included those calling for legislation to "liberalize the provisions for carry-over of losses by corporations," and to increase the statutory minimum wage to "at least 75 cents an hour and broaden its coverage." At the same time, the President abandoned the recommendation, made last January in his stateof-the-union message, which called for new tax legislation to yield \$4 billion a year, "principally from additional corporate taxes." His present message said that under existing conditions "immediate tax increases should be limited to raising estate and gift taxes and closing the loopholes in their administration . . .

The message described the present as "a transition period, in which we must work toward conditions that will promote a more stable and enduring growth in production, employment and purchasing power." No new public works program was recommended by the President. "The economic situation does not now call for an immediate and sweeping expansion of public works," he said, having previously indicated his view that work should continue on present federal and state programs which he called "substantial."

Also, the President favors preparing new programs "which might be needed if the business downturn should become more serious." And in that connection he recommended legislation "to provide for loans to assist state and local advance planning of public works," and to "enable the Bureau of Public Roads to make advances to states for acquiring and clearing rights-of-way."

Earlier in his message the President said that American businessmen now have "great opportunities" for investments, including those designed "to improve transportation facilities." Businessmen, he added, "should lift their sights to the needs of an economy that grows and prospers from year to year." The President also said that the country, "within a few years," can achieve a national output "well above \$300 billion,

valued at current prices."

The trend of prices was among the economic developments discussed at some length in the report of the President's Council of Economic Advisers which accompanied the message. There this was said: "A difficult problem of price adjustment is presented by the publicutility services, especially transportation, where competition is not directly effective. Their prices are a substantial element in the cost of production of manufactured goods, and, instead of falling, they are still rising in response to past advances in the cost of materials and labor. Public utility commissions as well as company executives have the special responsibilities of adjusting rates in relation to changed cost and demand conditions, with special emphasis upon the interests of the economy as a whole."

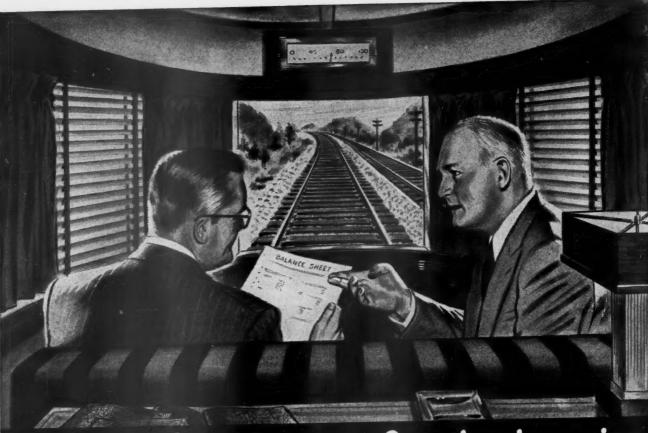


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